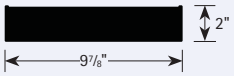
PLK CABLE MOUNT

1, 2, 3-Lamp T5, T5HO, T8, Direct/Indirect Distribution

FEATURES

- Crisp shape with clean, elegant lines
- Direct/Indirect lighting elements
- Up to 3T8, T5 or T5HO lamps in cross section
- Heavy 20-gauge steel body
- Wide selection of flush or regressed shielding, baffles, and louver
- Optional housing patterns available–perforated, slotted, or patterned strips on either side of shielding for added visual interest
- Control compatible for integral daylight harvesting, occupancy sensors, or dimming systems (small case size ballasts required)
- Low profile, adjustable cable mount hanging system
- Distribution covers can be used to customize % up/down light for classrooms and multi-purpose areas.
- Excellent for office and school applications

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

–Modular mounting points maintain convenient, predictable locations.

–The exact shape of the housing is maintained by the use of a patented inner die-cast plate at each fixture end (Patent# 6,796,676 B2) throughout the run to prevent snaking. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent.

FINISH

Housing and all painted parts are treated with a multi-stage phosphate prior to finish. Parts are then finished with a white powder coat for maximum consistent coverage and longevity. Other colors may be specified; refer to page MTX-1 or contact your local Alera Lighting representative.

SHIELDING

–White Cross Baffle with opal overlay (WCB)

–White Cross Baffle-high efficiency without overlay (WCBS)

–Regressed Perforated panel (RPF)

–Flat Perforated panel (FPF)

–Opal Acrylic lens (OA)

–Acrylic Pattern 12 Lens (A12)

–Semi-specular parabolic louver (LD). For a dramatic touch, colored lensing material may be selected as an overlay; contact factory.

DISTRIBUTION

–The standard distribution–20-30% down light.

–Our (CLC) Center Lamp Cover directs 100% of the center lamp light down.

MOUNTING

To maintain consistent, predictable mounting points, fixtures use an adjustable aircraft cable yoke mounting mechanism from two points at each hanging location.

LABELS AND ELECTRICAL

–UL 1598 or CUL labels.

–Prewired with electronic T8, T5, or T5HO ballasts

–Quick connect plugs standard

–Damp label on most models

Name:	PLK-2T8-PERF-WCB-E
Test #:	13890
Efficiency:	92%
LER:	80

ORDERING INFORMATION

EXAMPLE: PLK-24-3T5HO-PFST-CM48-WCB-EPU-MW

PLK - - - - - CM - - - -

MODEL

PLK	Plank

DISTRIBUTION

Blank	None

MOUNTING METHOD

CM	Adj. Aircraft Cable Mount (Std.)

SUSPENSION LENGTH

48	48"
96	96"

Other lengths available on request.

VOLTAGE

U	120V-277V
120	120V
277	277V
347	347V

FINISH

MW	Matte White (Std.)
ZT	ZET Metallic Silver

See MTX-1 for other color selections.

ROW LENGTH

4	4' Single
8	8' Single
12	12' Single
–	Indicate row length over 8' in 4' increments

Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

LAMP TYPE AND PROFILE

1T5	One T5 Lamp
2T5	Two T5 Lamps
3T5	Three T5 Lamps
1T5HO	One T5HO Lamp
2T5HO	Two T5HO Lamps
3T5HO	Three T5HO Lamps
1T8	One T8 Lamp
2T8	Two T8 Lamps
3T8	Three T8 Lamps

HOUSING TYPE

Blank	Solid (Std.)
PFST	Perforated Strip
HSLT	Horizontal Slot Strip
VSLT	Vertical Slot Strip
CLD	Custom Laser Cut Design Strip

SHIELDING

WCB	White Cross Baffle[1]
RPF	Regressed Perforated
FPF	Flat Perforated
OA	Opal Acrylic Lens
A12	Pattern 12 .125" Thick Acrylic Lens
LD	Low Iridescent Semi-Specular Parabolic Louver
WCBS	White Cross Baffle–High Efficiency Without Overlay

BALLAST

E	Electronic, Instant Start (Std. for T8)
EP	Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)
ED	Electronic, Dimming (Must specify)
ESD	Electronic, Step Dimming

Unless specified, Alera will use fewest ballasts possible.

OPTIONS

DC	Dust Cover (T8 only)
LR	Left/Right Switching (2-Lamp only)
IBOB	Inboard/Outboard Switching (3-Lamp only)
EL	One Emergency Battery Pack[2,3]
EMC	One Emergency Circuit[3,4]
NL	Night Light Circuit[3,4]
GLR	Fast Blow Fuse
GMF	Slow Blow Fuse
TBAR	T-Bar Mounting
CSA	UL listed or CSA certified for Canada
DL	Damp Label (Available on most models)

[1] Includes .020 thick white overlay.
[2] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).
[3] Not available with all configurations; some limitations apply. Contact factory for details.
[4] One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

Protected by US Patent 6,796,676.
Protected by Canada Patent 2,450,528.
Specifications subject to change without notice.

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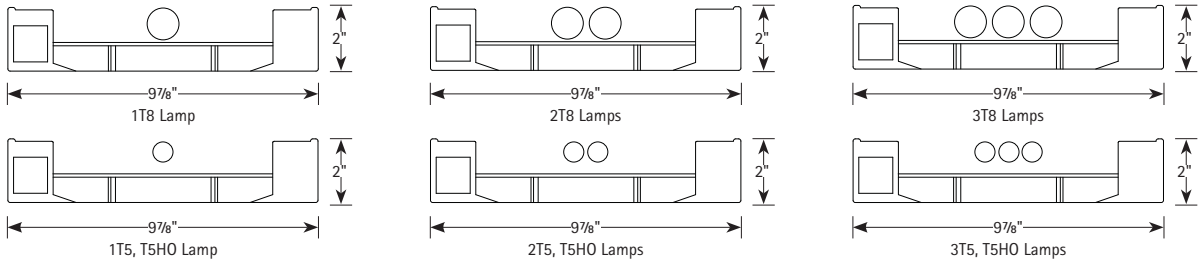
Hubbell Lighting, Inc.

PLK CABLE MOUNT

1, 2, 3-Lamp T5, T5HO, T8, Direct/Indirect Distribution

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 14038

Luminaire	PLK-1T8-WCB-E Plank Architectural Beam 9.75 × 48 1-Lamp with Gloss White Cross Baffle and Opal Overlay
Ballast	REL-1P32-SC
Ballast Factor	0.92
Lamp	F32T8
Lumens per Lamp	2900
Watts	34
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.03 90° = 1.25
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	3344	3344	3344	3344	3344
30	2587	2642	2831	3089	3265
40	2205	2297	2542	2894	3155
45	1974	2074	2373	2771	3069
50	1697	1843	2190	2628	2957
55	1493	1554	1964	2434	2741
60	1408	1455	1713	2135	2276
65	1332	1360	1555	1638	1555
70	1269	1269	1441	1338	1166
75	1224	1269	1315	1179	1133
80	1216	1216	1216	1013	946
85	1212	1077	808	673	673

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	207	7.1	7.4
0-40	327	11.3	11.7
0-60	529	18.2	18.9
0-90	620	21.4	22.1
90-120	774	26.7	27.7
90-130	1138	39.2	40.6
90-150	1767	60.9	63.1
90-180	2179	75.1	77.9
0-180	2799	96.5	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW (RCR)	70	50	30	10	70	50	30	10	50	30	10	0
1	89	85	81	78	78	75	72	70	58	56	54	18
2	81	74	69	64	71	66	61	57	51	48	45	16
3	74	65	59	53	65	58	53	48	45	41	38	14
4	67	58	51	45	60	51	45	41	40	36	32	12
5	62	51	44	38	55	46	40	35	35	31	28	10
6	57	46	38	33	50	41	35	30	32	27	24	9
7	52	41	34	29	46	37	31	26	29	24	21	8
8	48	37	30	25	43	33	27	23	26	22	19	7
9	45	34	27	22	40	30	24	20	24	20	17	7
10	42	31	24	20	37	28	22	18	22	18	15	6

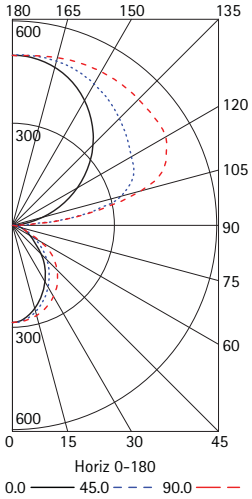
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance **RW** = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	96.5%
Luminaire Efficacy Rating (LER)	76
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.16 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/16/05

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14034

Luminaire	PLK-1T8-RPF-E Plank Architectural Beam 9.75 × 48 1-Lamp with Gloss White Regress Basket and Opal Overlay
Ballast	REL-1P32-SC
Ballast Factor	0.92
Lamp	F32T8
Lumens per Lamp	2900
Watts	33
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.24 90° = 1.22
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	1713	1713	1713	1713	1713
30	1666	1653	1653	1639	1626
40	1593	1547	1547	1531	1516
45	1526	1493	1477	1460	1443
50	1460	1424	1405	1387	1351
55	1350	1329	1309	1268	1248
60	1220	1197	1197	1126	1079
65	1083	1055	1055	916	833
70	892	892	823	652	583
75	680	725	589	499	499
80	608	608	540	473	473
85	538	538	538	538	538

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	113	3.9	4.2
0-40	183	6.3	6.8
0-60	309	10.6	11.5
0-90	363	12.5	13.5
90-120	812	28.0	30.2
90-130	1204	41.5	44.8
90-150	1883	64.9	70.1
90-180	2324	80.1	86.5
0-180	2687	92.7	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW (RCR)	70	50	30	10	70	50	30	10	50	30	10	0
1	83	79	76	73	73	70	67	64	51	49	48	11
2	76	69	64	60	66	61	57	53	45	42	40	9
3	69	61	55	50	60	54	48	44	40	36	33	8
4	63	54	47	42	55	47	42	37	35	31	28	7
5	58	48	41	36	50	42	36	32	31	27	24	6
6	53	43	36	31	46	37	32	27	28	24	21	5
7	49	38	31	26	43	34	28	24	25	21	18	5
8	45	34	28	23	39	30	25	21	23	19	16	4
9	42	31	25	20	36	28	22	18	21	17	14	4
10	39	28	22	18	34	25	20	16	19	15	12	3

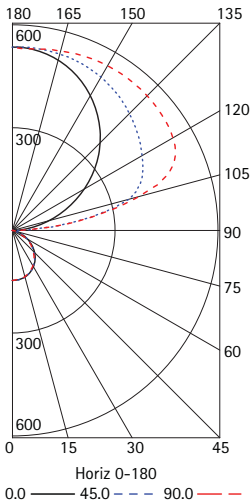
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance **RW** = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	92.7%
Luminaire Efficacy Rating (LER)	75
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.20 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/9/05

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Hubbell Lighting, Inc.

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14014

Luminaire	PLK-2T8-WCB-E Plank Architectural Beam 9.75 × 48 2-Lamp with Gloss White Center Louver and Side Reflectors
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	63
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.03 90° = 1.23
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	8095	8095	8095	8095	8095
30	6259	6435	6882	7451	7762
40	5314	5544	6126	6876	7366
45	4745	5011	5691	6504	7051
50	4107	4435	5183	6059	6662
55	3579	3784	4643	5543	6095
60	3402	3473	4059	4974	5467
65	3220	3276	3692	4331	4608
70	3053	3121	3499	3636	3567
75	2992	3128	3309	3309	3264
80	3040	3175	3243	3243	3243
85	3365	3365	3365	3231	3231

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	502	8.7	8.9
0-40	790	13.6	14.1
0-60	1266	21.8	22.6
0-90	1506	26.0	26.8
90-120	1211	20.9	21.6
90-130	1907	32.9	34.0
90-150	3221	55.5	57.4
90-180	4108	70.8	73.2
0-180	5613	96.8	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
RCR 1	90	86	82	79	80	77	74	71	60	58	56	22
2	82	75	70	65	73	67	63	59	53	49	47	19
3	75	66	59	54	67	59	54	49	47	43	39	16
4	68	59	51	46	61	53	46	42	41	37	34	14
5	63	52	45	39	56	47	41	36	37	33	29	12
6	58	47	39	34	51	42	36	31	33	29	25	11
7	53	42	35	30	48	38	32	27	30	26	22	10
8	49	38	31	26	44	34	28	24	27	23	20	9
9	46	35	28	23	41	31	25	21	25	21	17	8
10	43	32	25	20	38	29	23	19	23	19	16	7

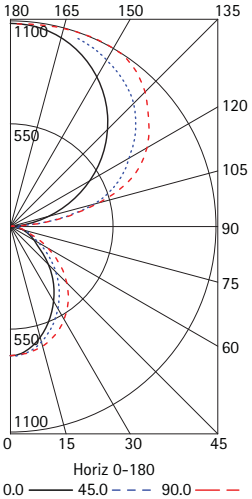
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	96.8%
Luminaire Efficacy Rating (LER)	78
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.08 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/18/07

PHOTOMETRIC DATA

LUMINAIRE DATA Test 13890

Luminaire	PLK-2T8-PERF-WCB-E Plank Architectural Beam 9.75 × 48 2-Lamp with Gloss White Center Louver and Side Reflectors
Ballast	ICN-2M32-MC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	62
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.03 90° = 1.23
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	7438	7438	7438	7438	7438
30	5784	5933	6245	6692	7126
40	4977	5161	5590	6172	6784
45	4496	4695	5193	5824	6504
50	3924	4143	4745	5439	6169
55	3293	3518	4213	4950	5666
60	3027	3074	3660	4388	5068
65	2859	2887	3220	3803	4303
70	2744	2744	3053	3190	3156
75	2674	2720	2856	2810	2538
80	2702	2702	2702	2567	2432
85	3096	2692	2423	2288	2154

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	460	7.9	8.6
0-40	724	12.5	13.6
0-60	1161	20.0	21.8
0-90	1370	23.6	25.7
90-120	1167	20.1	21.9
90-130	1839	31.7	34.5
90-150	3106	53.6	58.2
90-180	3965	68.4	74.3
0-180	5335	92.0	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
RCR 1	85	81	78	75	76	73	70	67	56	55	53	20
2	78	71	66	62	69	64	59	56	50	47	44	17
3	71	63	56	51	63	56	51	47	44	40	37	15
4	65	56	49	43	58	50	44	40	39	35	32	13
5	60	49	42	37	53	44	38	34	35	31	27	11
6	55	44	37	32	49	40	34	29	31	27	24	10
7	51	40	33	28	45	36	30	26	28	24	21	9
8	47	36	29	25	42	33	27	23	26	22	18	8
9	43	33	26	22	39	30	24	20	24	19	16	7
10	40	30	24	19	36	27	22	18	22	18	15	7

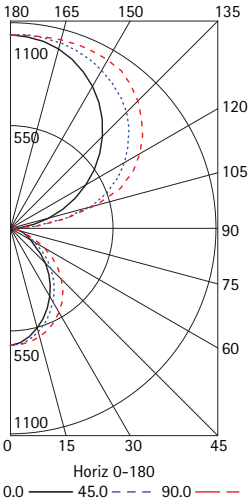
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	92.0%
Luminaire Efficacy Rating (LER)	80
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.00 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 3/24/05

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Hubbell Lighting, Inc.

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14031

Luminaire	PLK-2T8-RPF-E Plank Architectural Beam 9.75 × 48 2-Lamp with Gloss White Regress Basket and Opal Overlay
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	62
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.24 90° = 1.21
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	5033	5033	5033	5033	5033
30	4863	4850	4850	4796	4755
40	4625	4594	4548	4457	4380
45	4463	4430	4330	4198	4098
50	4234	4198	4052	3869	3742
55	3968	3907	3702	3436	3293
60	3590	3543	3285	2933	2769
65	3137	3054	2776	2387	2221
70	2538	2470	2230	1818	1681
75	1994	1994	1677	1496	1451
80	1621	1554	1621	1486	1419
85	1615	1615	1615	1481	1346

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	333	5.7	6.1
0-40	538	9.3	9.9
0-60	898	15.5	16.5
0-90	1050	18.1	19.3
90-120	1267	21.8	23.4
90-130	2013	34.7	37.1
90-150	3420	59.0	63.0
90-180	4376	75.5	80.7
0-180	5426	93.6	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW (RCR)	70	50	30	10	70	50	30	10	50	30	10	0
1	85	81	78	75	75	72	69	67	54	53	51	16
2	78	71	66	61	68	63	59	55	48	45	42	13
3	71	63	56	51	62	56	50	46	42	39	36	11
4	65	55	48	43	57	49	43	39	37	33	30	10
5	59	49	42	37	52	44	38	33	33	29	26	9
6	54	44	37	32	48	39	33	29	30	26	23	8
7	50	39	32	27	44	35	29	25	27	23	20	7
8	46	36	29	24	41	32	26	22	24	20	17	6
9	43	32	26	21	38	29	23	19	22	18	15	5
10	40	29	23	19	35	26	21	17	20	16	14	5

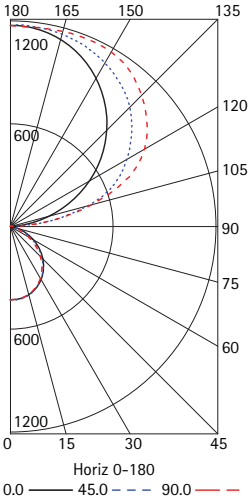
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	93.6%
Luminaire Efficacy Rating (LER)	77
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.12 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/18/07

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14017

Luminaire	PLK-3T8-WCB-E Plank Architectural Beam 9.75 × 48 3-Lamp with Gloss White Center Louver and Side Reflectors
Ballast	REL-3P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	88
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.02 90° = 1.17
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	12424	12424	12424	12424	12424
30	9523	9632	10079	10770	11230
40	8071	8239	8852	9801	10537
45	7201	7433	8179	9291	10187
50	6187	6516	7447	8797	9819
55	5420	5584	6668	8243	9368
60	5092	5162	5889	7579	8799
65	4802	4830	5385	6829	7967
70	4494	4528	5077	5934	6860
75	4306	4442	4669	5031	5394
80	4256	4256	4256	4459	4662
85	4308	3904	3500	3500	3500

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	752	8.6	9.4
0-40	1173	13.5	14.6
0-60	1871	21.5	23.3
0-90	2224	25.6	27.7
90-120	1518	17.4	18.9
90-130	2517	28.9	31.4
90-150	4463	51.3	55.7
90-180	5794	66.6	72.3
0-180	8018	92.2	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW (RCR)	70	50	30	10	70	50	30	10	50	30	10	0
1	86	82	79	76	77	73	71	68	57	56	54	22
2	78	72	66	62	70	64	60	56	51	48	45	19
3	71	63	57	52	64	57	51	47	45	41	38	16
4	65	56	49	44	58	50	45	40	40	36	32	14
5	60	50	43	38	53	45	39	34	36	31	28	12
6	55	45	38	32	49	40	34	30	32	28	24	11
7	51	40	33	28	45	36	30	26	29	25	21	10
8	47	36	30	25	42	33	27	23	26	22	19	9
9	44	33	27	22	39	30	24	20	24	20	17	8
10	41	30	24	20	37	27	22	18	22	18	15	7

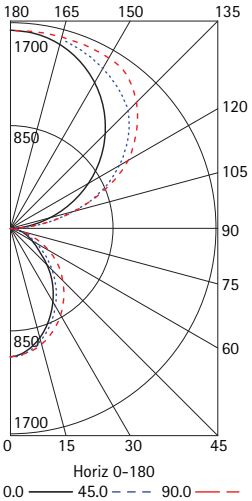
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	92.2%
Luminaire Efficacy Rating (LER)	80
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.00 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 8/11/05

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Hubbell Lighting, Inc.

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14020

Luminaire	PLK-1T5HO-WCB-EP Plank Architectural Beam 9.75 × 48 1-Lamp with Gloss White Center Louver and Opal Overlay
Ballast	ICN2S5490C
Ballast Factor	1.02
Lamp	F54T5HO
Lumens per Lamp	4450
Watts	62
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.03 90° = 1.25
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	4540	4540	4540	4540	4540
30	3509	3603	3888	4240	4430
40	2971	3124	3492	3967	4242
45	2671	2837	3252	3750	4048
50	2318	2519	2975	3504	3778
55	2045	2168	2679	3129	3334
60	1924	1994	2370	2651	2745
65	1832	1888	2165	2249	2221
70	1749	1818	2024	1989	1887
75	1677	1813	1904	1904	1813
80	1757	1757	1824	1757	1757
85	1750	1615	1615	1481	1481

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	282	6.3	6.6
0-40	446	10.0	10.4
0-60	716	16.1	16.7
0-90	847	19.0	19.8
90-120	1225	27.5	28.6
90-130	1793	40.3	41.9
90-150	2785	62.6	65.0
90-180	3434	77.2	80.2
0-180	4281	96.2	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	88	84	80	77	77	74	71	69	56	54	53	16
2	80	73	68	63	70	65	60	57	49	46	44	14
3	73	64	58	53	64	57	52	47	44	40	37	12
4	67	57	50	44	59	51	45	40	39	35	31	10
5	61	51	43	38	54	45	39	34	35	30	27	9
6	56	45	38	33	49	40	34	30	31	27	23	8
7	52	41	33	28	46	36	30	26	28	24	20	7
8	48	37	30	25	42	33	27	23	25	21	18	7
9	44	33	27	22	39	30	24	20	23	19	16	6
10	41	30	24	20	37	27	22	18	21	17	14	5

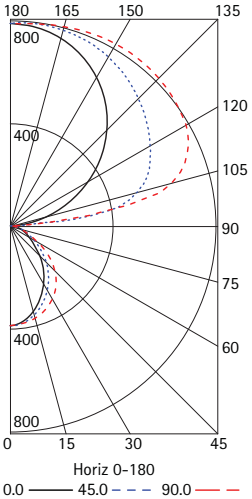
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	96.2%
Luminaire Efficacy Rating (LER)	70
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.43 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 8/15/05

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14036

Luminaire	PLK-1T5HO-RPF-EP Plank Architectural Beam 9.75 × 48 1-Lamp with Regress Perforated Basket and Opal Overlay
Ballast	ICN-2S54
Ballast Factor	1.02
Lamp	F54T5HO
Lumens per Lamp	4450
Watts	63
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.24 90° = 1.21
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	2276	2276	2276	2276	2276
30	2208	2181	2167	2154	2140
40	2098	2067	2037	2022	1976
45	2024	1991	1958	1908	1875
50	1916	1898	1843	1807	1770
55	1800	1759	1718	1677	1616
60	1642	1619	1596	1478	1408
65	1444	1416	1416	1249	1138
70	1166	1166	1166	960	858
75	952	997	907	771	725
80	878	878	811	743	676
85	942	808	808	673	673

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	150	3.4	3.5
0-40	242	5.4	5.6
0-60	408	9.2	9.5
0-90	484	10.9	11.3
90-120	1314	29.5	30.7
90-130	1945	43.7	45.4
90-150	3061	68.8	71.4
90-180	3804	85.5	88.7
0-180	4287	96.3	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	86	82	79	75	75	72	69	66	52	50	49	9
2	78	72	66	62	68	63	58	54	46	43	40	8
3	71	63	56	51	62	55	50	45	40	37	34	7
4	65	56	48	43	56	49	43	38	36	32	29	6
5	60	49	42	37	52	43	37	33	32	28	25	5
6	55	44	37	31	47	39	32	28	28	24	21	4
7	50	39	32	27	44	35	28	24	25	21	18	4
8	46	35	28	24	40	31	25	21	23	19	16	4
9	43	32	25	21	37	28	22	19	21	17	14	3
10	40	29	23	18	35	26	20	16	19	15	13	3

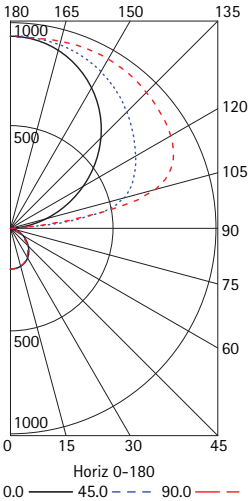
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	96.3%
Luminaire Efficacy Rating (LER)	69
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.48 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 9/13/05

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PHOTOMETRIC DATA

LUMINAIRE DATA Test 14021

Luminaire	PLK-2T5HO-WCB-EP Plank Architectural Beam 9.75 × 48 2-Lamp with Gloss White Center Louver and Opal Overlay
Ballast	ICN2S5490C
Ballast Factor	1.00
Lamp	F54T5HO
Lumens per Lamp	4450
Watts	121
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.02 90° = 1.21
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	9890	9890	9890	9890	9890
30	7573	7749	8263	8900	9279
40	6417	6647	7275	8071	8592
45	5724	6023	6686	7549	8179
50	4964	5275	6078	7063	7720
55	4377	4541	5400	6484	7220
60	4153	4200	4834	5913	6617
65	3942	3970	4469	5274	5746
70	3739	3773	4288	4494	4596
75	3626	3717	3944	4034	4125
80	3716	3581	3783	3716	3783
85	3904	3231	3096	2692	2827

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	608	6.8	7.3
0-40	952	10.7	11.4
0-60	1514	17.0	18.1
0-90	1798	20.2	21.5
90-120	2078	23.4	24.8
90-130	3203	36.0	38.3
90-150	5222	58.7	62.4
90-180	6569	73.8	78.5
0-180	8366	94.0	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	86	82	79	76	76	73	70	68	56	54	52	17
2	78	72	67	62	69	64	60	56	49	46	43	15
3	72	63	57	52	63	56	51	47	43	40	37	13
4	66	56	49	44	58	50	44	39	38	34	31	11
5	60	50	43	37	53	44	38	34	34	30	27	10
6	55	45	37	32	49	40	34	29	31	27	23	9
7	51	40	33	28	45	36	30	25	28	24	20	8
8	47	36	29	25	42	32	27	22	25	21	18	7
9	44	33	26	22	39	30	24	20	23	19	16	6
10	41	30	24	19	36	27	21	18	21	17	14	6

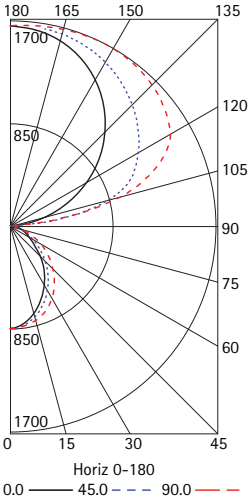
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	94.0%
Luminaire Efficacy Rating (LER)	69
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.48 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 8/17/05

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14024

Luminaire	PLK-3T5HO-WCB-EP Plank Architectural Beam 9.75 × 48 3-Lamp with Gloss White Center Louver and Opal Overlay
Ballast	ICN-4S5490C-2LS
Ballast Factor	1.00
Lamp	F54T5HO
Lumens per Lamp	4450
Watts	183
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.02 90° = 1.16
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	16049	16049	16049	16049	16049
30	12260	12409	13005	13736	14400
40	10368	10583	11425	12558	13554
45	9225	9540	10585	11879	13074
50	7958	8396	9673	11225	12557
55	6995	7220	8693	10431	11863
60	6617	6711	7743	9479	10864
65	6274	6302	7162	8467	9716
70	5900	5900	6757	7306	8198
75	5757	5893	6255	6391	6845
80	5810	5743	5945	5608	5878
85	5923	5115	4846	4577	4308

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	968	7.3	8.0
0-40	1510	11.3	12.5
0-60	2405	18.0	19.8
0-90	2861	21.4	23.6
90-120	2725	20.4	22.5
90-130	4341	32.5	35.8
90-150	7284	54.8	60.1
90-180	9259	69.4	76.4
0-180	12120	90.8	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC 80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	84	80	77	74	74	71	68	66	55	53	51	18
2	76	70	65	60	68	62	58	54	48	45	43	16
3	70	62	55	50	62	55	50	45	43	39	36	13
4	64	54	48	43	56	49	43	39	38	34	31	12
5	58	48	41	36	52	43	37	33	34	30	26	10
6	54	43	36	31	48	39	33	29	30	26	23	9
7	50	39	32	27	44	35	29	25	27	23	20	8
8	46	35	29	24	41	32	26	22	25	21	18	7
9	43	32	26	21	38	29	23	19	23	19	16	7
10	40	29	23	19	35	26	21	17	21	17	14	6

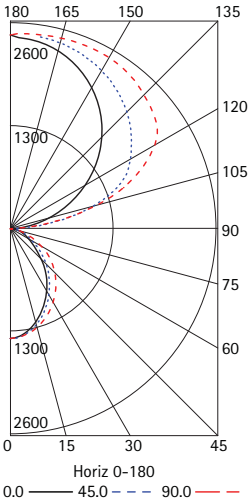
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	90.8%
Luminaire Efficacy Rating (LER)	66
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.64 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



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