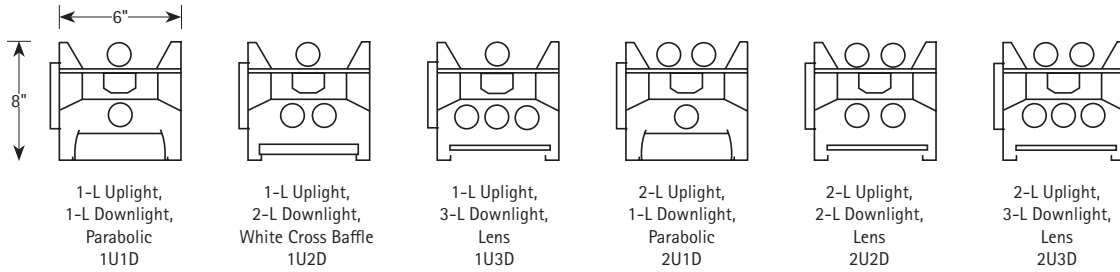


CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 10827

Luminaire	MS8-1AU2DT8-LD-E MS8 Architectural Beam 8" x 48" WITH 1-LAMP UP OPEN ASY AND 2-LAMPS DOWN SEMI-SPEC LVR
Ballast	B3321120RH
Ballast Factor	0.93
Lamp	F032/741
Lumens per Lamp	2850
Watts	88
Shielding Angle	0° = 28 90° = 32
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 3.96 Width: 0.58 Height: 0.65

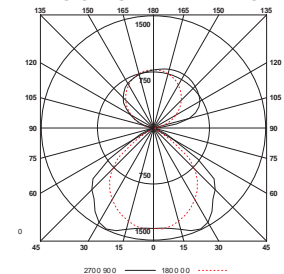
AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	6294	6294	6294	6294	6294
15	4784	5234	6612	15308	22322
30	3900	4625	6464	30504	126915
45	3641	4139	6217	75857	0
60	3296	3468	5583	0	0
75	2272	2577	3180	0	0
90	1007	1342	668	0	0
105	606	326	445	0	0
120	141	105	399	0	0
135	59	62	421	0	0
150	29	39	1954	0	0
165	8	12	0	0	0
180	1477	1477	1477	1477	1477

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0				
	RW	70	50	30	10	70	50	30	10	50	30	10	0	10	0	10	0			
1	71	68	66	64	66	64	62	60	55	53	52	35	1	0	0	0	0			
2	65	61	57	54	61	57	53	50	49	47	44	30	1	0	0	0	0			
3	60	54	49	45	56	51	46	43	44	41	38	26	1	0	0	0	0			
4	55	48	43	39	51	45	40	37	39	36	33	23	1	0	0	0	0			
5	51	43	38	34	47	40	36	32	35	32	29	20	1	0	0	0	0			
6	47	39	33	29	44	36	32	28	32	28	25	18	1	0	0	0	0			
7	43	35	30	26	40	33	28	25	29	25	22	16	1	0	0	0	0			
8	40	32	27	23	38	30	25	22	27	23	20	14	1	0	0	0	0			
9	38	29	24	20	35	27	23	19	24	20	18	13	1	0	0	0	0			
10	35	27	22	18	33	25	21	18	22	19	16	12	1	0	0	0	0			

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1129	13.2	18.6
0-40	1902	22.2	31.3
0-60	3188	37.3	52.5
0-90	3316	38.8	54.6
90-120	752	8.8	12.4
90-130	1221	14.3	20.1
90-150	2129	24.9	35.0
90-180	2760	32.3	45.4
0-180	6076	71.1	100.0

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	71.1%
Luminaire Efficacy Rating (LER)	64
ANSI/IESNA RP-1-2004 Compliance	-
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.75 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/1/94

PHOTOMETRIC DATA

LUMINAIRE DATA Test 10828

Luminaire	MS8-1AU3DT8-A12-E MS8 Architectural Beam 8" x 48" WITH 1-LAMP UP OPEN ASY AND 3-LAMPS DOWN A12 LENS
Ballast	B4321120RH
Ballast Factor	0.91
Lamp	F032/741
Lumens per Lamp	2850
Watts	106
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 3.96 Width: 0.58 Height: 0.65

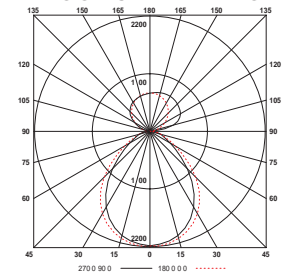
AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	10226	10226	10226	10226	10226
30	5480	6733	10838	19690	25573
40	3919	5195	10345	34262	127530
45	3150	4337	9793	79479	0
50	2444	3492	8946	0	0
55	1866	2739	8069	0	0
60	1421	2037	7347	0	0
65	1095	1444	6897	0	0
70	887	1026	7238	0	0
75	744	853	10190	0	0
80	550	720	62153	0	0
85	261	394	0	0	0

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0				
	RW	70	50	30	10	70	50	30	10	50	30	10	0	10	0	10	0			
1	65	63	60	58	61	59	57	55	52	51	49	36	1	0	0	0	0			
2	60	55	52	48	56	52	49	46	46	44	42	31	1	0	0	0	0			
3	55	49	45	41	52	46	42	39	41	38	36	27	1	0	0	0	0			
4	51	44	39	35	47	41	37	34	37	34	31	23	1	0	0	0	0			
5	47	39	34	30	44	37	33	29	33	30	27	21	1	0	0	0	0			
6	43	36	30	27	41	34	29	26	30	27	24	18	1	0	0	0	0			
7	40	32	27	24	38	31	26	23	28	24	21	16	1	0	0	0	0			
8	37	29	25	21	35	28	24	20	25	22	19	15	1	0	0	0	0			
9	35	27	22	19	33	26	21	18	23	20	17	13	1	0	0	0	0			
10	33	25	20	17	31	24	20	17	22	18	16	12	1	0	0	0	0			

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1662	14.6	22.7
0-40	2631	23.1	35.9
0-60	4091	35.9	55.9
0-90	4727	41.5	64.6
90-120	706	6.2	9.6
90-130	1147	10.1	15.7
90-150	2001	17.5	27.3
90-180	2593	22.7	35.4
0-180	7320	64.2	100.0

RCR = Room Cavity Ratio

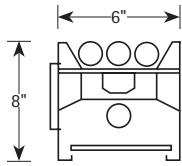
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

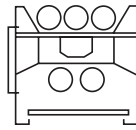
Total Luminaire Efficiency	64.2%
Luminaire Efficacy Rating (LER)	63
ANSI/IESNA RP-1-2004 Compliance	-
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.81 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/1/94

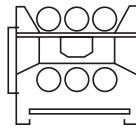
CROSS SECTION



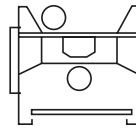
3-L Uplight,
1-L Downlight,
Lens
3U1D



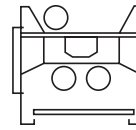
3-L Uplight,
2-L Downlight,
Lens
3U2D



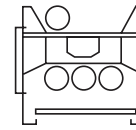
3-L Uplight,
3-L Downlight,
Lens
3U3D



3-L Asym. Uplight,
2-L Downlight,
Lens
1AU1D



1-L Asym. Uplight,
2-L Downlight,
Lens
1AU2D



1-L Asym. Uplight,
3-L Downlight,
Lens
1AU3D

PHOTOMETRIC DATA

LUMINAIRE DATA Test 10830

Luminaire	MS8-1AU3DT8-LD-E MS8 Architectural Beam 8" x 48" WITH 1-LAMP UP OPEN ASY AND 3-LAMPS DOWN SEMI- SPEC LOUVER
Ballast	B2321120RH
Ballast Factor	0.91
Lamp	F032/741
Lumens per Lamp	2850
Watts	106
Mounting	Pendant
Shielding Angle	0° = 28 90° = 26
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 3.96 Width: 0.58 Height: 0.65

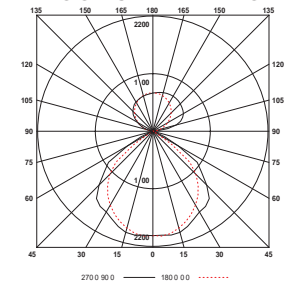
AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	9340	9340	9340	9340	9340
30	5845	6694	9744	19576	27274
40	5287	5819	9543	38381	172058
45	4547	5353	9222	98099	0
50	3783	4598	8330	0	0
55	3249	3400	4792	0	0
60	1775	1856	917	0	0
65	811	489	599	0	0
70	191	134	499	0	0
75	80	77	514	0	0
80	40	45	2345	0	0
85	12	12	0	0	0

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0		
1	64	61	59	57	60	58	56	54	51	50	48	48	35	0		
2	59	54	51	48	55	51	48	46	46	43	41	31	27	0		
3	54	49	44	41	51	46	42	39	41	38	36	27	24	0		
4	50	43	39	35	47	41	37	34	37	34	31	24	21	0		
5	46	39	34	31	43	37	33	29	33	30	27	21	19	0		
6	42	35	30	27	40	33	29	26	30	27	24	19	17	0		
7	39	32	27	24	37	30	26	23	27	24	21	17	15	0		
8	36	29	24	21	34	28	23	20	25	21	19	15	13	0		
9	34	27	22	19	32	25	21	18	23	19	17	13	12	0		
10	32	24	20	17	30	23	19	17	21	18	15	12	12	0		

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1586	13.9	22.4
0-40	2605	22.8	36.8
0-60	4304	37.8	60.8
0-90	4487	39.4	63.4
90-120	706	6.2	10.0
90-130	1147	10.1	16.2
90-150	2001	17.5	28.3
90-180	2593	22.7	36.6
0-180	7080	62.1	100.0

ENERGY DATA

Total Luminaire Efficiency	62.1%
Luminaire Efficacy Rating (LER)	61
ANSI/IESNA RP-1-2004 Compliance	-
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.93 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/1/94