



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L3-850-RD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 21002.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-10-03
[MANUFAC] WILLIAMS INDOOR
[MORE] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 96 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[MORE] 0-10V REMOTE DRIVER ENCLOSURE
[LUMCAT] SL-8-L3-850-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2721
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	21.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	8.00 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.05 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8460	6801	6448
55	8005	6091	5816
65	7154	5243	5176
75	6044	4324	4607
85	3405	3599	4148

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	856.873	856.873	856.873	856.873	856.873
5	859.678	855.471	849.861	848.459	849.861
10	847.056	842.849	837.239	837.239	840.044
15	828.825	824.618	819.008	820.410	820.410
20	800.777	796.569	789.557	795.167	796.569
25	765.716	761.509	760.107	764.314	767.119
30	722.242	722.242	722.242	727.851	726.449
35	675.962	675.962	675.962	681.572	685.779
40	619.866	621.268	622.670	632.487	638.097
45	559.562	563.769	567.976	579.196	583.403
50	493.649	497.856	507.673	524.502	532.916
55	430.540	431.943	450.174	464.198	476.820
60	357.615	364.627	389.870	416.516	424.931
65	284.689	295.909	325.359	354.810	367.432
70	217.374	228.593	265.056	301.518	312.738
75	148.656	168.289	208.959	249.629	266.458
80	86.949	107.986	162.680	203.350	221.581
85	29.451	68.718	119.205	159.875	178.106
90	0.000	37.865	88.352	124.815	138.839
95	0.000	19.634	60.304	96.766	109.388
100	0.000	9.817	42.072	71.523	84.145
105	0.000	5.610	29.451	51.889	63.108
110	0.000	4.207	19.634	37.865	44.877
115	0.000	2.805	12.622	26.646	33.658
120	0.000	0.000	7.012	16.829	21.036
125	0.000	0.000	5.610	11.219	14.024
130	0.000	0.000	0.000	7.012	8.414
135	0.000	0.000	0.000	0.000	5.610
140	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	312.86	N.A.	11.50
0-30	664.49	N.A.	24.40
0-40	1088.77	N.A.	40.00
0-60	1932.13	N.A.	71.00
0-80	2477.41	N.A.	91.00
0-90	2603.61	N.A.	95.70
10-90	2522.64	N.A.	92.70
20-40	775.91	N.A.	28.50
20-50	1216.06	N.A.	44.70
40-70	1166.99	N.A.	42.90
60-80	545.28	N.A.	20.00
70-80	221.65	N.A.	8.10
80-90	126.20	N.A.	4.60
90-110	96.97	N.A.	3.60
90-120	111.70	N.A.	4.10
90-130	116.97	N.A.	4.30
90-150	117.81	N.A.	4.30
90-180	117.81	N.A.	4.30
110-180	20.83	N.A.	0.80
0-180	2721.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.97
10-20	231.89
20-30	351.63
30-40	424.29
40-50	440.15
50-60	403.21
60-70	323.63
70-80	221.65
80-90	126.20
90-100	64.74
100-110	32.24
110-120	14.72
120-130	5.27
130-140	0.84
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	106	101	96	92	103	98	94	90	93	90	86	89	86	83	84	82	80	77
2	96	87	80	74	93	85	78	73	81	75	70	77	72	68	73	69	66	63
3	88	76	68	61	85	75	67	60	71	64	59	68	62	57	64	60	55	53
4	80	68	58	51	77	66	57	51	63	56	50	60	54	49	57	52	47	45
5	74	60	51	44	71	59	50	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	38	32	43	37	32	30
8	59	45	36	30	57	44	36	30	42	35	29	41	34	29	39	33	29	27
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	35	28	24	33	28	23	22

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	17.2	18.8	17.6	19.2	19.6	18.9	20.5	19.3	20.9	21.3
	3H	18.7	20.1	19.1	20.5	21.0	21.2	22.7	21.7	23.1	23.5
	4H	19.1	20.5	19.6	20.9	21.4	22.3	23.7	22.8	24.1	24.6
	6H	19.4	20.7	19.9	21.1	21.6	23.5	24.8	24.0	25.2	25.7
	8H	19.5	20.7	20.0	21.2	21.7	24.1	25.3	24.6	25.8	26.3
	12H	19.5	20.7	20.0	21.1	21.7	24.8	26.0	25.3	26.4	26.9

UGR Viewed Endwise

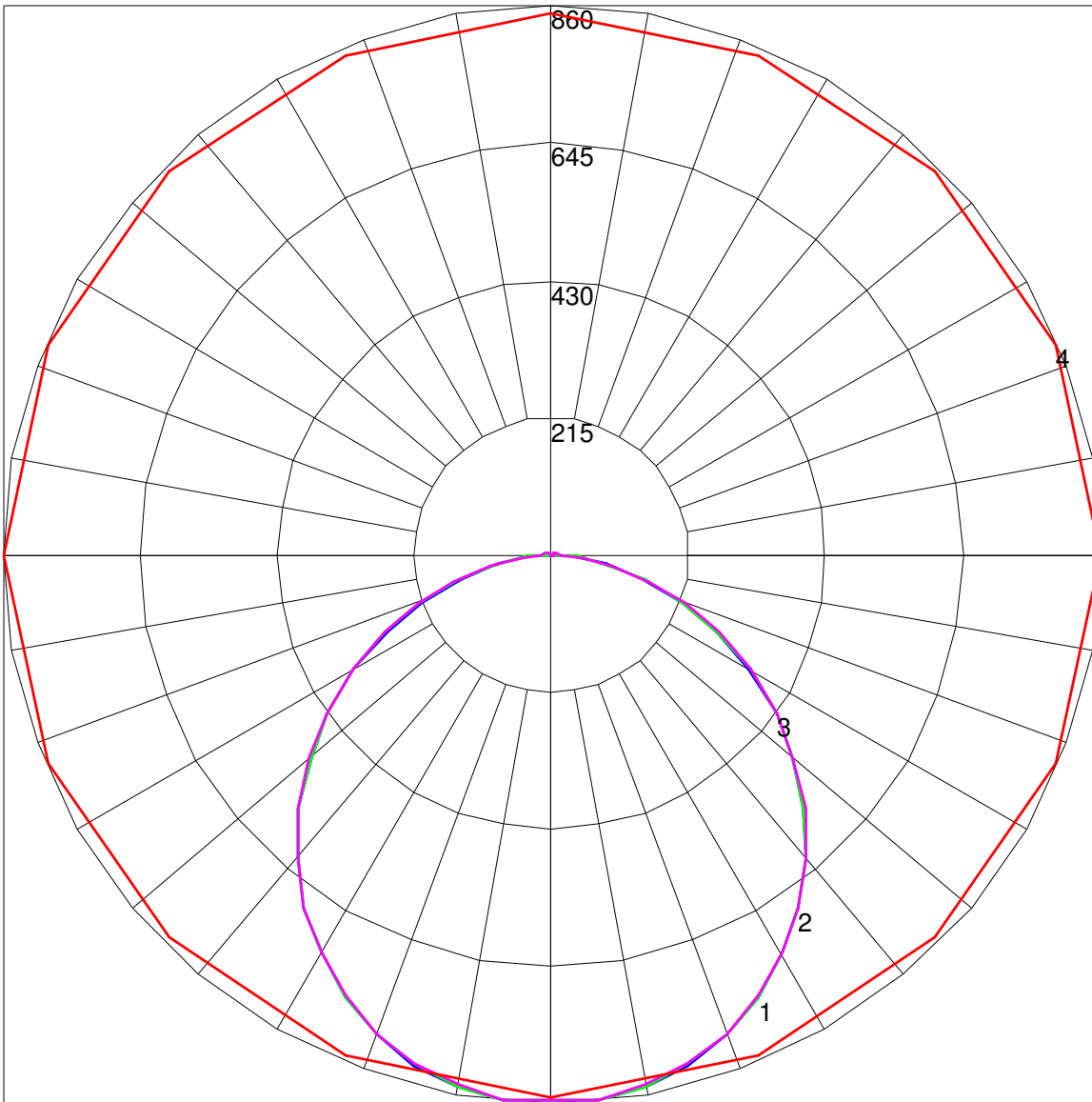
4H	2H	18.0	19.4	18.4	19.8	20.3	19.3	20.7	19.8	21.1	21.6
	3H	19.7	20.8	20.1	21.3	21.8	21.9	23.0	22.3	23.5	24.0
	4H	20.2	21.3	20.7	21.8	22.3	23.1	24.2	23.6	24.7	25.2
	6H	20.6	21.6	21.2	22.1	22.6	24.5	25.4	25.0	25.9	26.5
	8H	20.7	21.6	21.3	22.1	22.7	25.2	26.1	25.7	26.6	27.1
	12H	20.8	21.6	21.3	22.1	22.7	26.0	26.8	26.5	27.3	27.9

8H	4H	20.8	21.7	21.3	22.2	22.7	23.3	24.2	23.8	24.7	25.3
	6H	21.3	22.1	21.9	22.6	23.2	24.8	25.6	25.3	26.1	26.7
	8H	21.5	22.2	22.0	22.7	23.3	25.6	26.3	26.2	26.9	27.5
	12H	21.6	22.2	22.2	22.8	23.4	26.6	27.2	27.2	27.7	28.4

12H	4H	20.9	21.7	21.5	22.3	22.8	23.3	24.1	23.9	24.7	25.2
	6H	21.6	22.2	22.1	22.8	23.4	24.8	25.5	25.4	26.1	26.7
	8H	21.8	22.4	22.4	22.9	23.6	25.7	26.3	26.3	26.9	27.5

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 859.678 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (5 - 185)
3 - Vertical Plane Through Horizontal Angles (10 - 190)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)