



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L5-850-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-L5-850-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4286
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	35.2
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	13323	10711	10154
55	12606	9592	9160
65	11266	8256	8151
75	9518	6810	7255
85	5362	5668	6532

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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	1349.375	1349.375	1349.375	1349.375	1349.375
5	1353.792	1347.167	1338.333	1336.124	1338.333
10	1333.916	1327.291	1318.457	1318.457	1322.874
15	1305.206	1298.580	1289.747	1291.955	1291.955
20	1261.036	1254.411	1243.369	1252.203	1254.411
25	1205.825	1199.199	1196.991	1203.616	1208.033
30	1137.362	1137.362	1137.362	1146.196	1143.988
35	1064.483	1064.483	1064.483	1073.316	1079.942
40	976.144	978.352	980.561	996.020	1004.854
45	881.180	887.805	894.430	912.098	918.724
50	777.381	784.007	799.466	825.968	839.219
55	678.000	680.209	708.919	731.004	750.880
60	563.160	574.202	613.955	655.916	669.166
65	448.319	465.987	512.365	558.743	578.619
70	342.313	359.981	417.401	474.821	492.489
75	234.098	265.016	329.062	393.108	419.609
80	136.925	170.052	256.183	320.228	348.938
85	46.378	108.215	187.720	251.766	280.476
90	0.000	59.629	139.134	196.554	218.639
95	0.000	30.919	94.964	152.384	172.261
100	0.000	15.459	66.254	112.632	132.508
105	0.000	8.834	46.378	81.713	99.381
110	0.000	6.625	30.919	59.629	70.671
115	0.000	4.417	19.876	41.961	53.003
120	0.000	0.000	11.042	26.502	33.127
125	0.000	0.000	8.834	17.668	22.085
130	0.000	0.000	0.000	11.042	13.251
135	0.000	0.000	0.000	0.000	8.834
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	492.68	N.A.	11.50
0-30	1046.41	N.A.	24.40
0-40	1714.56	N.A.	40.00
0-60	3042.65	N.A.	71.00
0-80	3901.35	N.A.	91.00
0-90	4100.09	N.A.	95.70
10-90	3972.57	N.A.	92.70
20-40	1221.88	N.A.	28.50
20-50	1915.01	N.A.	44.70
40-70	1837.73	N.A.	42.90
60-80	858.69	N.A.	20.00
70-80	349.05	N.A.	8.10
80-90	198.74	N.A.	4.60
90-110	152.71	N.A.	3.60
90-120	175.90	N.A.	4.10
90-130	184.20	N.A.	4.30
90-150	185.52	N.A.	4.30
90-180	185.52	N.A.	4.30
110-180	32.80	N.A.	0.80
0-180	4285.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.51
10-20	365.17
20-30	553.73
30-40	668.15
40-50	693.13
50-60	634.96
60-70	509.64
70-80	349.05
80-90	198.74
90-100	101.94
100-110	50.77
110-120	23.19
120-130	8.30
130-140	1.32
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	55	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	58	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

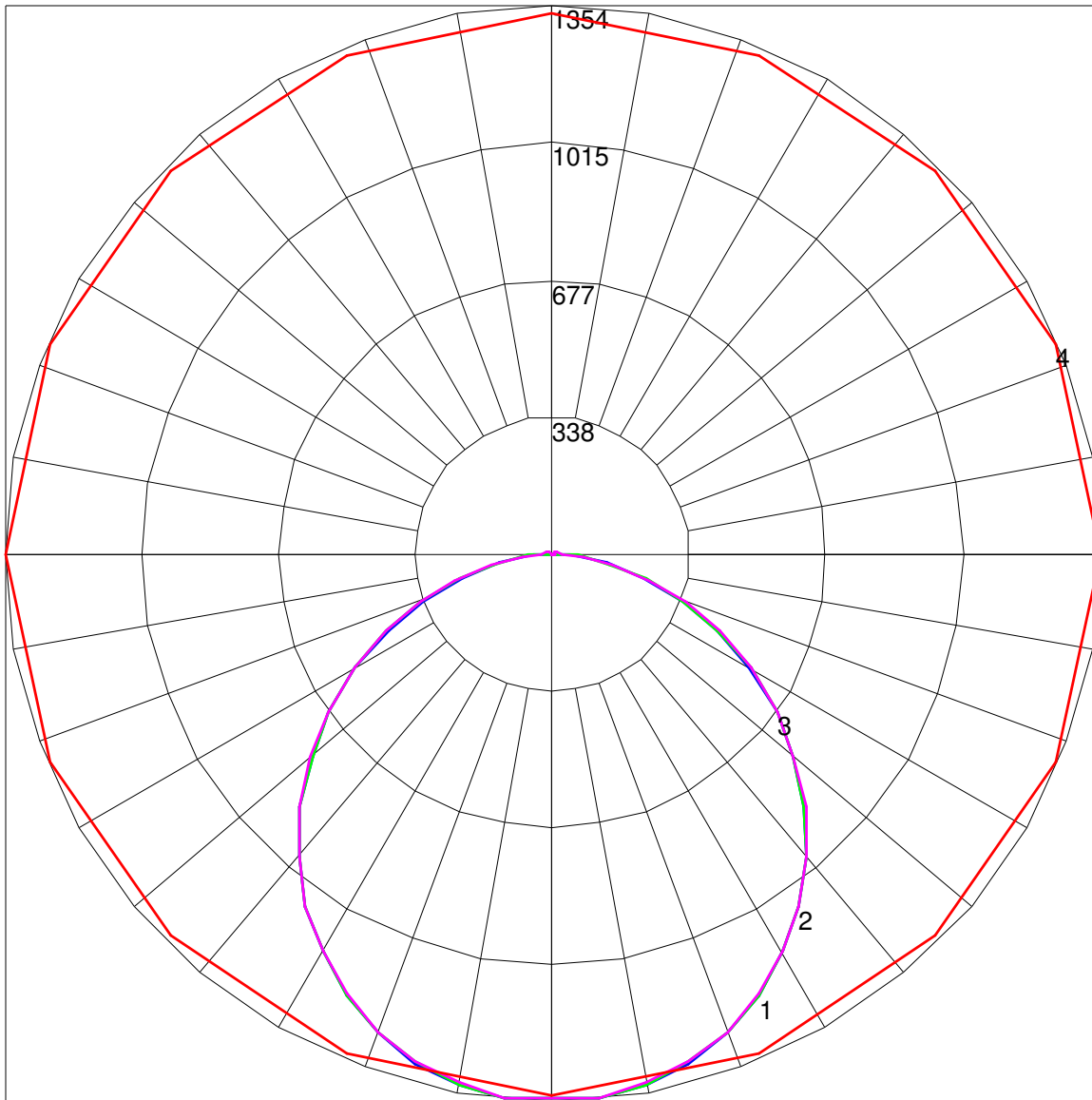
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.8	20.4	19.2	20.8	21.2	20.5	22.1	20.9	22.5	22.9
	3H	20.3	21.7	20.7	22.1	22.6	22.8	24.3	23.3	24.7	25.1
	4H	20.7	22.1	21.2	22.5	23.0	23.9	25.3	24.4	25.7	26.2
	6H	21.0	22.3	21.5	22.7	23.2	25.1	26.4	25.6	26.8	27.3
	8H	21.1	22.3	21.6	22.8	23.3	25.7	26.9	26.2	27.4	27.9
	12H	21.1	22.3	21.6	22.7	23.3	26.4	27.6	26.9	28.0	28.5
4H	2H	19.6	21.0	20.0	21.4	21.8	20.9	22.3	21.4	22.7	23.2
	3H	21.3	22.4	21.7	22.9	23.4	23.5	24.6	23.9	25.1	25.6
	4H	21.8	22.9	22.3	23.4	23.9	24.7	25.8	25.2	26.3	26.8
	6H	22.2	23.2	22.8	23.7	24.2	26.1	27.0	26.6	27.5	28.1
	8H	22.3	23.2	22.9	23.7	24.3	26.8	27.7	27.3	28.2	28.7
	12H	22.4	23.2	22.9	23.7	24.3	27.6	28.4	28.1	28.9	29.5
8H	4H	22.4	23.3	22.9	23.8	24.3	24.9	25.8	25.4	26.3	26.9
	6H	22.9	23.7	23.5	24.2	24.8	26.4	27.2	26.9	27.7	28.3
	8H	23.1	23.8	23.6	24.3	24.9	27.2	27.9	27.8	28.5	29.1
	12H	23.2	23.8	23.8	24.4	25.0	28.2	28.8	28.8	29.3	30.0
12H	4H	22.5	23.3	23.1	23.9	24.4	24.9	25.7	25.5	26.3	26.8
	6H	23.2	23.8	23.7	24.4	25.0	26.4	27.1	27.0	27.7	28.3
	8H	23.4	24.0	24.0	24.5	25.2	27.3	27.9	27.9	28.5	29.1

Maximum UGR = 30.0

POLAR GRAPH



Maximum Candela = 1353.792 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.)