



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L10-840-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-L10-840-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8275
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	70.8
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	25725	20681	19607
55	24341	18522	17686
65	21753	15942	15739
75	18378	13149	14008
85	10354	10944	12613

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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	2605.511	2605.511	2605.511	2605.511	2605.511
5	2614.039	2601.246	2584.189	2579.924	2584.189
10	2575.660	2562.867	2545.810	2545.810	2554.338
15	2520.224	2507.431	2490.373	2494.638	2494.638
20	2434.937	2422.144	2400.822	2417.880	2422.144
25	2328.329	2315.536	2311.271	2324.064	2332.593
30	2196.134	2196.134	2196.134	2213.191	2208.927
35	2055.411	2055.411	2055.411	2072.468	2085.261
40	1884.837	1889.102	1893.366	1923.216	1940.274
45	1701.471	1714.264	1727.057	1761.172	1773.965
50	1501.047	1513.840	1543.690	1594.862	1620.448
55	1309.152	1313.416	1368.853	1411.496	1449.875
60	1087.406	1108.728	1185.486	1266.508	1292.094
65	865.661	899.775	989.326	1078.878	1117.257
70	660.972	695.087	805.960	916.833	950.947
75	452.020	511.721	635.386	759.052	810.224
80	264.389	328.354	494.663	618.329	673.765
85	89.551	208.953	362.469	486.135	541.571
90	0.000	115.137	268.653	379.526	422.169
95	0.000	59.701	183.367	294.239	332.618
100	0.000	29.850	127.930	217.481	255.860
105	0.000	17.057	89.551	157.781	191.895
110	0.000	12.793	59.701	115.137	136.459
115	0.000	8.529	38.379	81.022	102.344
120	0.000	0.000	21.322	51.172	63.965
125	0.000	0.000	17.057	34.115	42.643
130	0.000	0.000	0.000	21.322	25.586
135	0.000	0.000	0.000	0.000	17.057
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	951.32	N.A.	11.50
0-30	2020.52	N.A.	24.40
0-40	3310.65	N.A.	40.00
0-60	5875.07	N.A.	71.00
0-80	7533.11	N.A.	91.00
0-90	7916.86	N.A.	95.70
10-90	7670.65	N.A.	92.70
20-40	2359.34	N.A.	28.50
20-50	3697.7	N.A.	44.70
40-70	3548.47	N.A.	42.90
60-80	1658.05	N.A.	20.00
70-80	673.99	N.A.	8.10
80-90	383.75	N.A.	4.60
90-110	294.87	N.A.	3.60
90-120	339.64	N.A.	4.10
90-130	355.66	N.A.	4.30
90-150	358.21	N.A.	4.30
90-180	358.21	N.A.	4.30
110-180	63.34	N.A.	0.80
0-180	8275.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.21
10-20	705.11
20-30	1069.2
30-40	1290.14
40-50	1338.36
50-60	1226.05
60-70	984.06
70-80	673.99
80-90	383.75
90-100	196.84
100-110	98.03
110-120	44.77
120-130	16.02
130-140	2.55
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	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	21.0	22.6	21.4	23.0	23.4	22.7	24.3	23.1	24.7	25.1
	3H	22.5	23.9	22.9	24.3	24.8	25.0	26.5	25.5	26.9	27.3
	4H	22.9	24.3	23.4	24.7	25.2	26.1	27.5	26.6	27.9	28.4
	6H	23.2	24.5	23.7	24.9	25.4	27.3	28.6	27.8	29.0	29.5
	8H	23.3	24.5	23.8	25.0	25.5	27.9	29.1	28.4	29.6	30.1
	12H	23.3	24.5	23.8	24.9	25.5	28.6	29.8	29.1	30.2	30.7

UGR Viewed Endwise

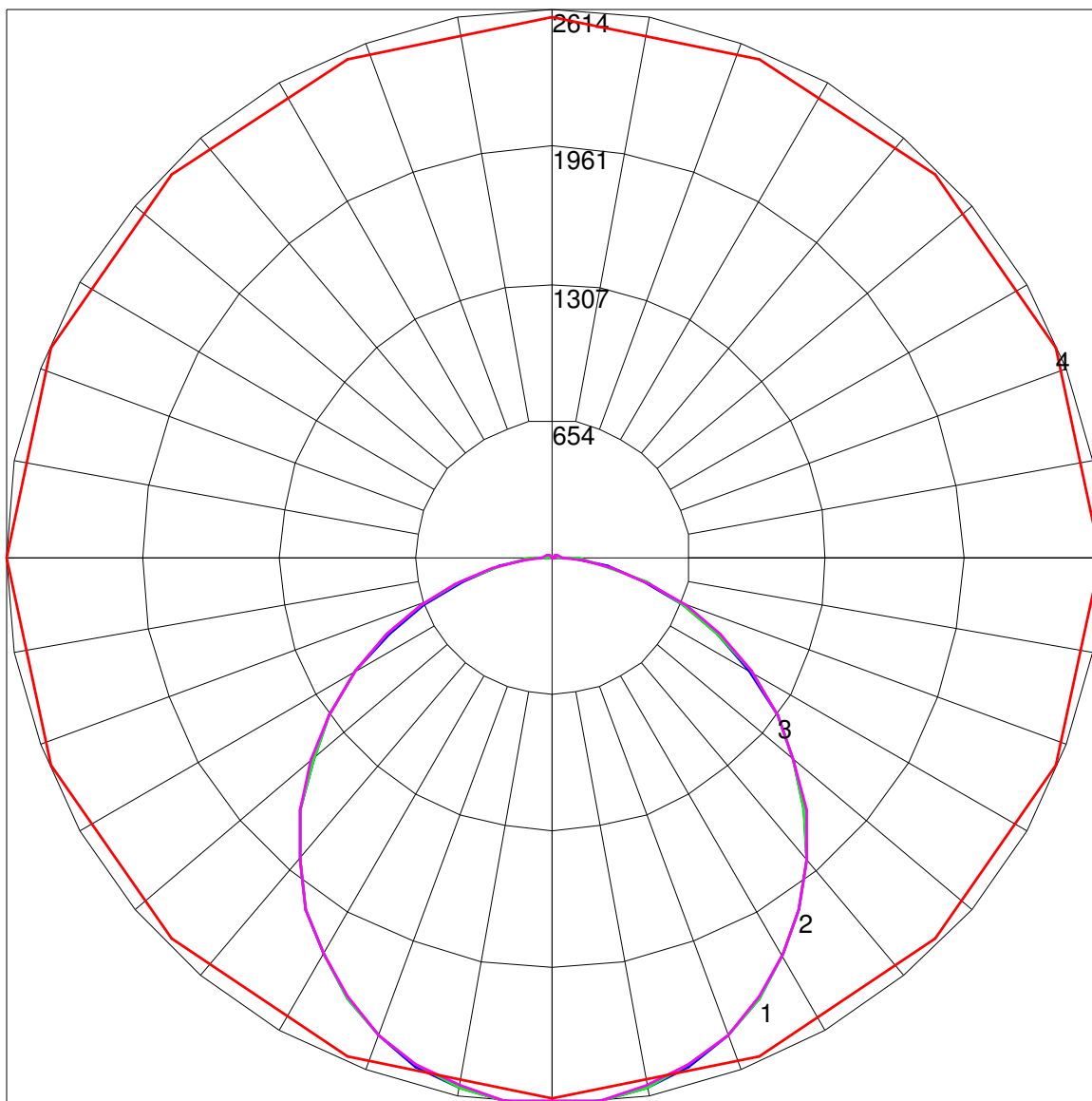
4H	2H	21.8	23.2	22.2	23.6	24.1	23.1	24.5	23.6	24.9	25.4
	3H	23.5	24.6	23.9	25.1	25.6	25.7	26.8	26.1	27.3	27.8
	4H	24.0	25.1	24.5	25.6	26.1	26.9	28.0	27.4	28.5	29.0
	6H	24.4	25.4	25.0	25.9	26.4	28.3	29.2	28.8	29.7	30.3
	8H	24.5	25.4	25.1	25.9	26.5	29.0	29.9	29.5	30.4	30.9
	12H	24.6	25.4	25.1	25.9	26.5	29.8	30.6	30.3	31.1	31.7

8H	4H	24.6	25.5	25.1	26.0	26.5	27.1	28.0	27.6	28.5	29.1
	6H	25.1	25.9	25.7	26.4	27.0	28.6	29.4	29.1	29.9	30.5
	8H	25.3	26.0	25.8	26.5	27.1	29.4	30.1	30.0	30.7	31.3
	12H	25.4	26.0	26.0	26.6	27.2	30.4	31.0	31.0	31.5	32.2

12H	4H	24.7	25.5	25.3	26.1	26.6	27.1	27.9	27.7	28.5	29.0
	6H	25.4	26.0	25.9	26.6	27.2	28.6	29.3	29.2	29.9	30.5
	8H	25.6	26.2	26.2	26.7	27.4	29.5	30.1	30.1	30.7	31.3

Maximum UGR = 32.2

POLAR GRAPH



Maximum Candela = 2614.039 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.)