



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-8-L5-840-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-L5-840-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4164
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
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	12946	10407	9867
55	12249	9321	8900
65	10947	8023	7920
75	9249	6617	7049
85	5211	5508	6348

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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	1311.185	1311.185	1311.185	1311.185	1311.185
5	1315.477	1309.039	1300.455	1298.309	1300.455
10	1296.163	1289.726	1281.142	1281.142	1285.434
15	1268.266	1261.828	1253.244	1255.390	1255.390
20	1225.347	1218.909	1208.179	1216.763	1218.909
25	1171.697	1165.260	1163.114	1169.551	1173.843
30	1105.173	1105.173	1105.173	1113.756	1111.610
35	1034.356	1034.356	1034.356	1042.940	1049.377
40	948.517	950.663	952.809	967.831	976.415
45	856.240	862.678	869.116	886.284	892.722
50	755.380	761.818	776.840	802.591	815.467
55	658.812	660.958	688.855	710.315	729.628
60	547.221	557.951	596.579	637.352	650.228
65	435.631	452.799	497.864	542.929	562.243
70	332.625	349.792	405.588	461.383	478.550
75	227.472	257.516	319.749	381.982	407.734
80	133.050	165.239	248.932	311.165	339.063
85	45.065	105.152	182.407	244.640	272.538
90	0.000	57.941	135.196	190.991	212.451
95	0.000	30.044	92.277	148.072	167.385
100	0.000	15.022	64.379	109.444	128.758
105	0.000	8.584	45.065	79.401	96.568
110	0.000	6.438	30.044	57.941	68.671
115	0.000	4.292	19.314	40.773	51.503
120	0.000	0.000	10.730	25.752	32.189
125	0.000	0.000	8.584	17.168	21.460
130	0.000	0.000	0.000	10.730	12.876
135	0.000	0.000	0.000	0.000	8.584
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	478.74	N.A.	11.50
0-30	1016.8	N.A.	24.40
0-40	1666.04	N.A.	40.00
0-60	2956.54	N.A.	71.00
0-80	3790.93	N.A.	91.00
0-90	3984.05	N.A.	95.70
10-90	3860.14	N.A.	92.70
20-40	1187.3	N.A.	28.50
20-50	1860.81	N.A.	44.70
40-70	1785.72	N.A.	42.90
60-80	834.39	N.A.	20.00
70-80	339.17	N.A.	8.10
80-90	193.11	N.A.	4.60
90-110	148.39	N.A.	3.60
90-120	170.92	N.A.	4.10
90-130	178.98	N.A.	4.30
90-150	180.27	N.A.	4.30
90-180	180.27	N.A.	4.30
110-180	31.87	N.A.	0.80
0-180	4164.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.90
10-20	354.83
20-30	538.06
30-40	649.24
40-50	673.51
50-60	616.99
60-70	495.21
70-80	339.17
80-90	193.11
90-100	99.06
100-110	49.33
110-120	22.53
120-130	8.06
130-140	1.28
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

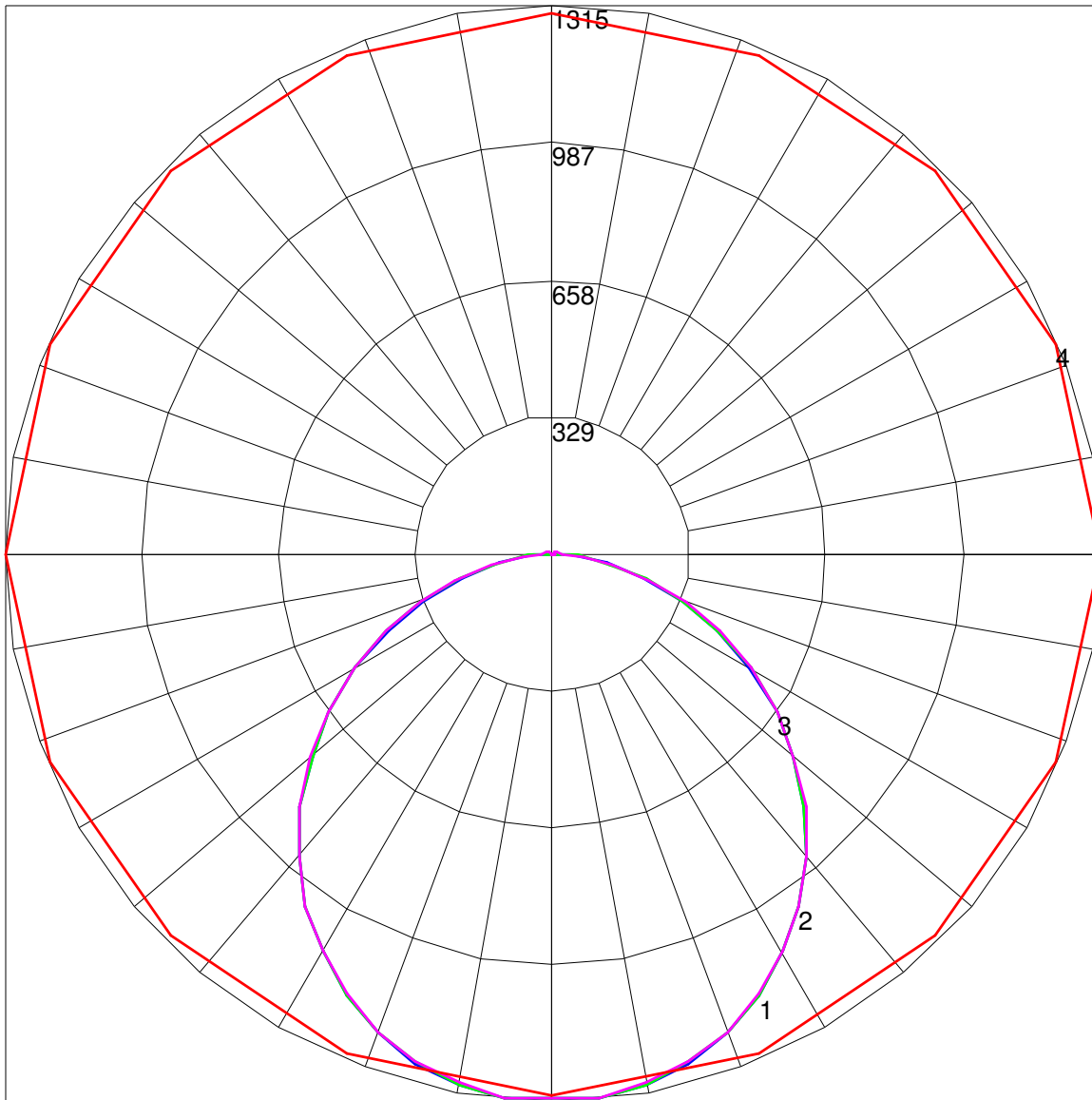
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.7	20.3	19.1	20.7	21.1	20.4	22.0	20.8	22.4	22.8
	3H	20.2	21.6	20.6	22.0	22.5	22.7	24.2	23.2	24.6	25.0
	4H	20.6	22.0	21.1	22.4	22.9	23.8	25.2	24.3	25.6	26.1
	6H	20.9	22.2	21.4	22.6	23.1	25.0	26.3	25.5	26.7	27.2
	8H	21.0	22.2	21.5	22.7	23.2	25.6	26.8	26.1	27.3	27.8
	12H	21.0	22.2	21.5	22.6	23.2	26.3	27.5	26.8	27.9	28.4
4H	2H	19.5	20.9	19.9	21.3	21.8	20.8	22.2	21.3	22.6	23.1
	3H	21.2	22.3	21.6	22.8	23.3	23.4	24.5	23.8	25.0	25.5
	4H	21.7	22.8	22.2	23.3	23.8	24.6	25.7	25.1	26.2	26.7
	6H	22.1	23.1	22.7	23.6	24.1	26.0	26.9	26.5	27.4	28.0
	8H	22.2	23.1	22.8	23.6	24.2	26.7	27.6	27.2	28.1	28.6
	12H	22.3	23.1	22.8	23.6	24.2	27.5	28.3	28.0	28.8	29.4
8H	4H	22.3	23.2	22.8	23.7	24.2	24.8	25.7	25.3	26.2	26.8
	6H	22.8	23.6	23.4	24.1	24.7	26.3	27.1	26.8	27.6	28.2
	8H	23.0	23.7	23.5	24.2	24.8	27.1	27.8	27.7	28.4	29.0
	12H	23.1	23.7	23.7	24.3	24.9	28.1	28.7	28.7	29.2	29.9
12H	4H	22.4	23.2	23.0	23.8	24.3	24.8	25.6	25.4	26.2	26.7
	6H	23.1	23.7	23.6	24.3	24.9	26.3	27.0	26.9	27.6	28.2
	8H	23.3	23.9	23.9	24.4	25.1	27.2	27.8	27.8	28.4	29.0

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 1315.477 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.)