



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-8-L5-830-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-L5-830-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4003
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	12443	10003	9484
55	11773	8959	8555
65	10522	7711	7613
75	8889	6360	6776
85	5008	5294	6101

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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	1260.266	1260.266	1260.266	1260.266	1260.266
5	1264.391	1258.203	1249.953	1247.890	1249.953
10	1245.827	1239.639	1231.389	1231.389	1235.514
15	1219.013	1212.825	1204.575	1206.637	1206.637
20	1177.761	1171.573	1161.260	1169.510	1171.573
25	1126.195	1120.007	1117.944	1124.132	1128.258
30	1062.253	1062.253	1062.253	1070.504	1068.441
35	994.187	994.187	994.187	1002.437	1008.625
40	911.682	913.744	915.807	930.245	938.496
45	822.989	829.176	835.364	851.865	858.053
50	726.045	732.233	746.671	771.423	783.799
55	633.227	635.289	662.104	682.730	701.294
60	525.970	536.283	573.411	612.601	624.976
65	418.713	435.215	478.530	521.845	540.409
70	319.707	336.208	389.837	443.465	459.966
75	218.639	247.515	307.332	367.148	391.899
80	127.883	158.822	239.265	299.081	325.895
85	43.315	101.069	175.323	235.140	261.954
90	0.000	55.691	129.946	183.574	204.200
95	0.000	28.877	88.693	142.321	160.885
100	0.000	14.438	61.879	105.194	123.758
105	0.000	8.251	43.315	76.317	92.818
110	0.000	6.188	28.877	55.691	66.004
115	0.000	4.125	18.564	39.190	49.503
120	0.000	0.000	10.313	24.752	30.939
125	0.000	0.000	8.251	16.501	20.626
130	0.000	0.000	0.000	10.313	12.376
135	0.000	0.000	0.000	0.000	8.251
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	460.15	N.A.	11.50
0-30	977.31	N.A.	24.40
0-40	1601.34	N.A.	40.00
0-60	2841.72	N.A.	71.00
0-80	3643.71	N.A.	91.00
0-90	3829.33	N.A.	95.70
10-90	3710.23	N.A.	92.70
20-40	1141.19	N.A.	28.50
20-50	1788.55	N.A.	44.70
40-70	1716.37	N.A.	42.90
60-80	801.99	N.A.	20.00
70-80	326.00	N.A.	8.10
80-90	185.62	N.A.	4.60
90-110	142.63	N.A.	3.60
90-120	164.28	N.A.	4.10
90-130	172.03	N.A.	4.30
90-150	173.26	N.A.	4.30
90-180	173.26	N.A.	4.30
110-180	30.64	N.A.	0.80
0-180	4002.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.09
10-20	341.05
20-30	517.16
30-40	624.03
40-50	647.35
50-60	593.03
60-70	475.98
70-80	326.00
80-90	185.62
90-100	95.21
100-110	47.42
110-120	21.65
120-130	7.75
130-140	1.23
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

X=2H	Y=2H	18.5	20.1	18.9	20.5	20.9	20.2	21.8	20.6	22.2	22.6
	3H	20.0	21.4	20.4	21.8	22.3	22.5	24.0	23.0	24.4	24.8
	4H	20.4	21.8	20.9	22.2	22.7	23.6	25.0	24.1	25.4	25.9
	6H	20.7	22.0	21.2	22.4	22.9	24.8	26.1	25.3	26.5	27.0
	8H	20.8	22.0	21.3	22.5	23.0	25.4	26.6	25.9	27.1	27.6
	12H	20.8	22.0	21.3	22.4	23.0	26.1	27.3	26.6	27.7	28.2

UGR Viewed Endwise

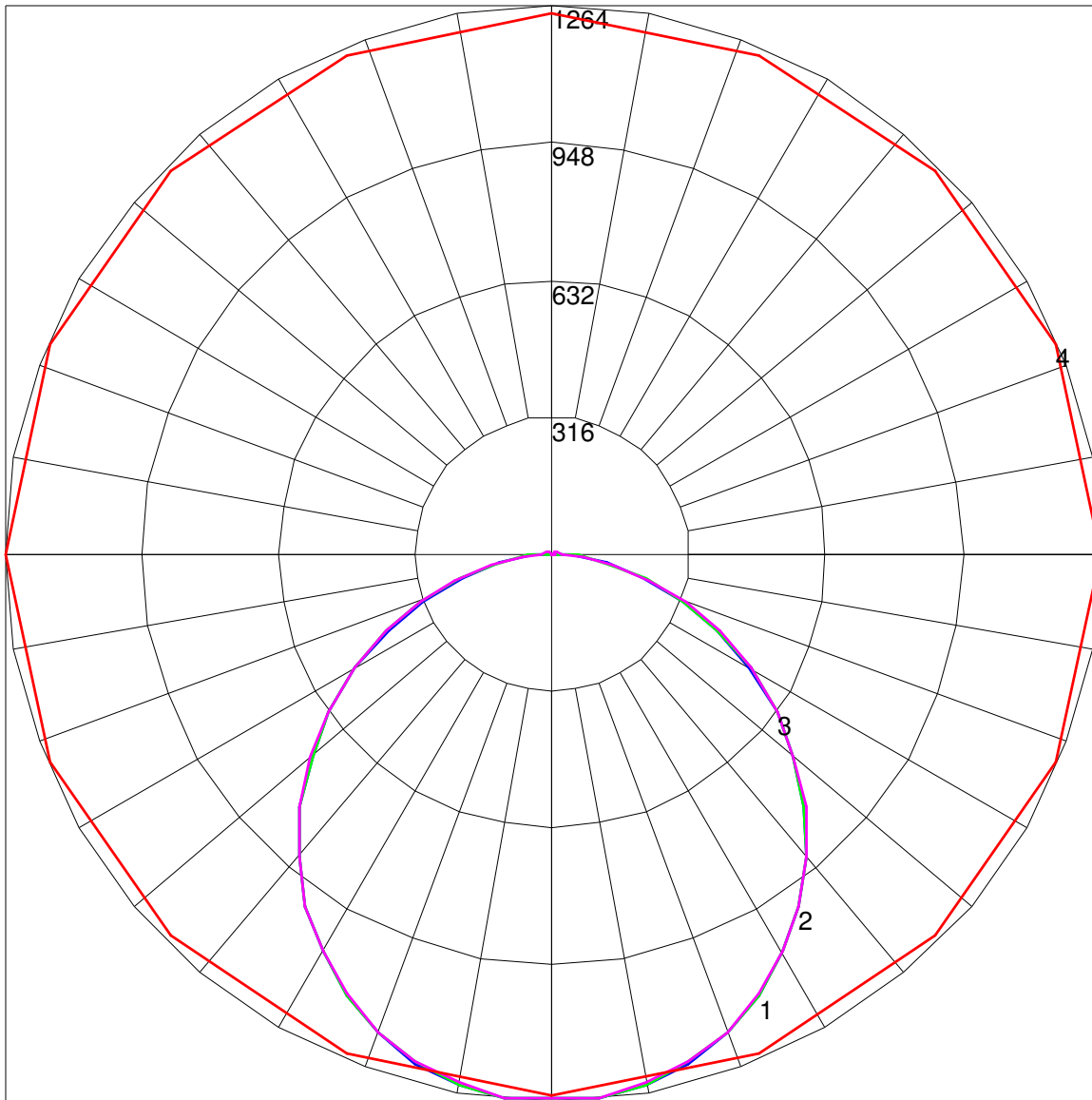
4H	2H	19.3	20.7	19.7	21.1	21.5	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.2	24.3	23.6	24.8	25.3
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	26.0	26.5
	6H	21.9	22.9	22.5	23.4	23.9	25.8	26.7	26.3	27.2	27.8
	8H	22.0	22.9	22.6	23.4	24.0	26.5	27.4	27.0	27.9	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.3	28.1	27.8	28.6	29.2

8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.6
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.9	26.6	27.4	28.0
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.5	28.2	28.8
	12H	22.9	23.5	23.5	24.1	24.7	27.9	28.5	28.5	29.0	29.7

12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.2	26.0	26.5
	6H	22.9	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.4	28.0
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.6	28.2	28.8

Maximum UGR = 29.7

POLAR GRAPH



Maximum Candela = 1264.391 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.)