



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L10-827-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] 48 INCH LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.5"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[MORE] 0-10V REMOTE DRIVER ENCLOSURE
[LUMCAT] SL-4-L10-827-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	37.7
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)	4.00 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	24440	19698	18736
55	23067	17623	16900
65	20531	15149	15040
75	17193	12469	13386
85	9308	10338	12053

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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	1244.882	1244.882	1244.882	1244.882	1244.882
5	1248.957	1242.845	1234.695	1232.657	1234.695
10	1230.620	1224.507	1216.358	1216.358	1220.433
15	1204.133	1198.021	1189.871	1191.908	1191.908
20	1163.384	1157.272	1147.084	1155.234	1157.272
25	1112.448	1106.335	1104.298	1110.410	1114.485
30	1049.287	1049.287	1049.287	1057.437	1055.399
35	982.051	982.051	982.051	990.201	996.313
40	900.553	902.590	904.628	918.890	927.040
45	812.943	819.055	825.167	841.467	847.579
50	717.182	723.295	737.557	762.006	774.231
55	625.497	627.535	654.021	674.396	692.733
60	519.550	529.737	566.411	605.123	617.347
65	413.602	429.902	472.688	515.475	533.812
70	315.805	332.104	385.078	438.052	454.351
75	215.970	244.494	303.580	362.666	387.116
80	126.322	156.884	236.344	295.430	321.917
85	42.786	99.835	173.183	232.269	258.756
90	0.000	55.011	128.359	181.333	201.708
95	0.000	28.524	87.610	140.584	158.921
100	0.000	14.262	61.124	103.910	122.247
105	0.000	8.150	42.786	75.386	91.685
110	0.000	6.112	28.524	55.011	65.198
115	0.000	4.075	18.337	38.712	48.899
120	0.000	0.000	10.187	24.449	30.562
125	0.000	0.000	8.150	16.300	20.375
130	0.000	0.000	0.000	10.187	12.225
135	0.000	0.000	0.000	0.000	8.150
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	454.53	N.A.	11.50
0-30	965.38	N.A.	24.40
0-40	1581.79	N.A.	40.00
0-60	2807.04	N.A.	71.00
0-80	3599.23	N.A.	91.00
0-90	3782.58	N.A.	95.70
10-90	3664.94	N.A.	92.70
20-40	1127.26	N.A.	28.50
20-50	1766.72	N.A.	44.70
40-70	1695.42	N.A.	42.90
60-80	792.20	N.A.	20.00
70-80	322.02	N.A.	8.10
80-90	183.35	N.A.	4.60
90-110	140.89	N.A.	3.60
90-120	162.28	N.A.	4.10
90-130	169.93	N.A.	4.30
90-150	171.15	N.A.	4.30
90-180	171.15	N.A.	4.30
110-180	30.26	N.A.	0.80
0-180	3953.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	117.64
10-20	336.89
20-30	510.85
30-40	616.41
40-50	639.45
50-60	585.79
60-70	470.17
70-80	322.02
80-90	183.35
90-100	94.05
100-110	46.84
110-120	21.39
120-130	7.65
130-140	1.22
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	20.9	22.5	21.3	22.9	23.3	22.6	24.2	23.0	24.6	25.0
	3H	22.4	23.8	22.8	24.2	24.7	24.9	26.3	25.3	26.8	27.2
	4H	22.8	24.2	23.3	24.6	25.1	26.0	27.4	26.5	27.8	28.3
	6H	23.1	24.4	23.6	24.9	25.3	27.2	28.4	27.6	28.9	29.4
	8H	23.2	24.4	23.7	24.9	25.4	27.7	29.0	28.2	29.4	29.9
	12H	23.2	24.4	23.7	24.8	25.4	28.4	29.6	28.9	30.0	30.6

UGR Viewed Endwise

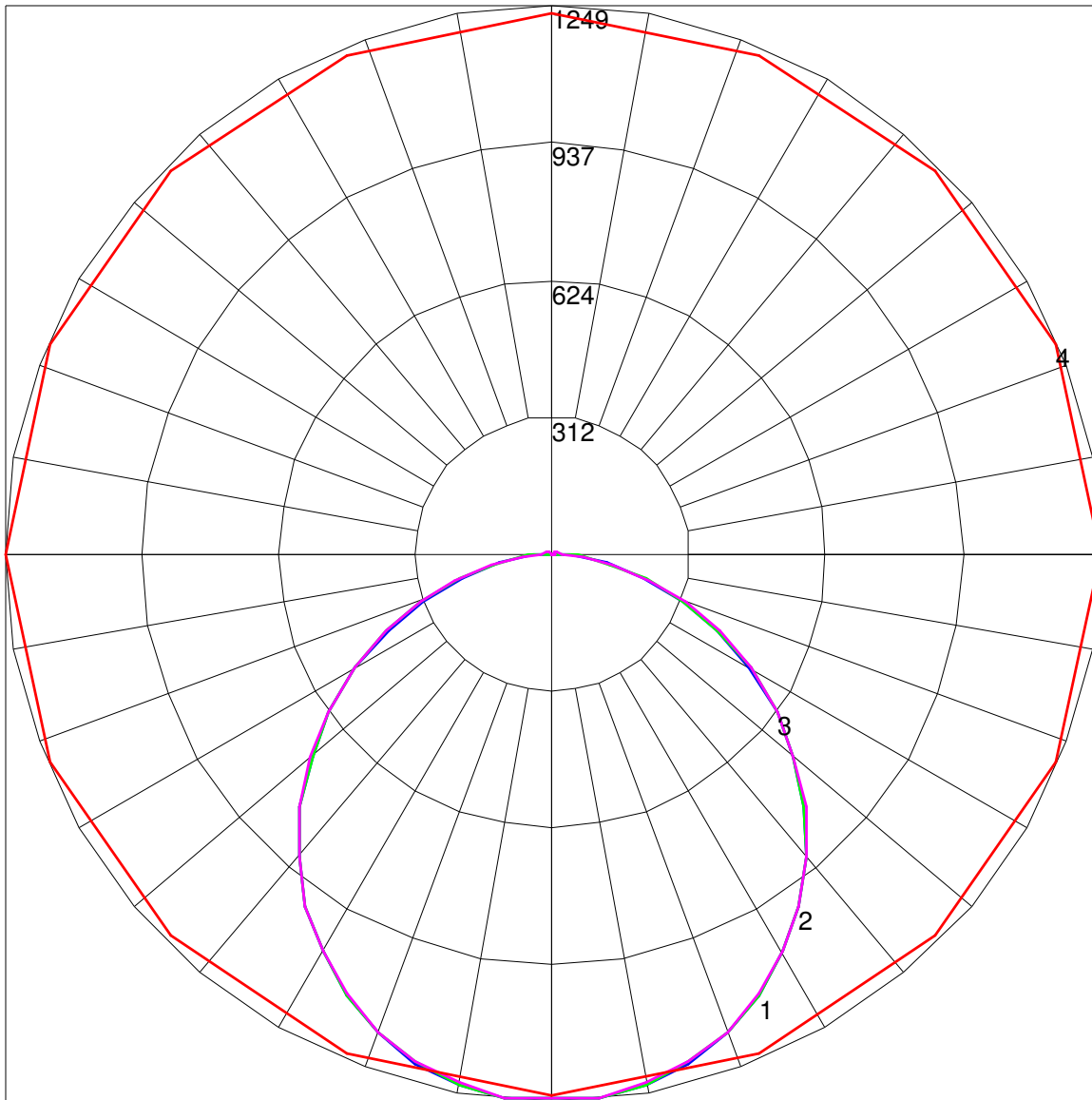
4H	2H	21.7	23.0	22.1	23.5	23.9	23.0	24.4	23.5	24.8	25.3
	3H	23.4	24.5	23.8	25.0	25.5	25.5	26.7	26.0	27.2	27.7
	4H	23.9	25.0	24.4	25.5	26.0	26.8	27.9	27.3	28.3	28.9
	6H	24.3	25.3	24.9	25.8	26.3	28.1	29.1	28.7	29.6	30.1
	8H	24.4	25.3	25.0	25.8	26.4	28.8	29.7	29.3	30.2	30.8
	12H	24.5	25.3	25.0	25.8	26.4	29.6	30.4	30.1	30.9	31.5

8H	4H	24.5	25.4	25.0	25.9	26.4	27.0	27.9	27.5	28.4	28.9
	6H	25.0	25.8	25.6	26.3	26.9	28.5	29.2	29.0	29.8	30.3
	8H	25.2	25.9	25.7	26.4	27.0	29.3	30.0	29.8	30.5	31.1
	12H	25.3	25.9	25.9	26.4	27.1	30.2	30.8	30.8	31.4	32.0

12H	4H	24.6	25.4	25.2	26.0	26.5	27.0	27.8	27.5	28.3	28.9
	6H	25.2	25.9	25.8	26.5	27.1	28.5	29.2	29.1	29.7	30.3
	8H	25.5	26.1	26.0	26.6	27.3	29.4	30.0	29.9	30.5	31.2

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 1248.957 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.)