



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L10-927-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-L10-927-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3261
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
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	20156	16246	15452
55	19025	14535	13939
65	16933	12494	12404
75	14180	10283	11040
85	7677	8526	9941

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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	1026.707	1026.707	1026.707	1026.707	1026.707
5	1030.067	1025.026	1018.305	1016.624	1018.305
10	1014.944	1009.903	1003.182	1003.182	1006.542
15	993.099	988.058	981.337	983.017	983.017
20	959.492	954.451	946.049	952.770	954.451
25	917.483	912.441	910.761	915.802	919.163
30	865.391	865.391	865.391	872.113	870.432
35	809.939	809.939	809.939	816.660	821.701
40	742.724	744.404	746.085	757.847	764.569
45	670.468	675.509	680.550	693.993	699.034
50	591.491	596.532	608.294	628.459	638.541
55	515.874	517.554	539.399	556.203	571.326
60	428.495	436.896	467.143	499.070	509.152
65	341.115	354.558	389.846	425.134	440.257
70	260.458	273.900	317.590	361.280	374.723
75	178.119	201.645	250.375	299.106	319.270
80	104.183	129.389	194.923	243.654	265.499
85	35.288	82.338	142.832	191.562	213.407
90	0.000	45.370	105.863	149.553	166.357
95	0.000	23.525	72.256	115.946	131.069
100	0.000	11.763	50.411	85.699	100.822
105	0.000	6.721	35.288	62.174	75.617
110	0.000	5.041	23.525	45.370	53.772
115	0.000	3.361	15.123	31.927	40.329
120	0.000	0.000	8.402	20.164	25.206
125	0.000	0.000	6.721	13.443	16.804
130	0.000	0.000	0.000	8.402	10.082
135	0.000	0.000	0.000	0.000	6.721
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	374.87	N.A.	11.50
0-30	796.19	N.A.	24.40
0-40	1304.57	N.A.	40.00
0-60	2315.08	N.A.	71.00
0-80	2968.44	N.A.	91.00
0-90	3119.65	N.A.	95.70
10-90	3022.63	N.A.	92.70
20-40	929.70	N.A.	28.50
20-50	1457.08	N.A.	44.70
40-70	1398.28	N.A.	42.90
60-80	653.36	N.A.	20.00
70-80	265.59	N.A.	8.10
80-90	151.22	N.A.	4.60
90-110	116.20	N.A.	3.60
90-120	133.84	N.A.	4.10
90-130	140.15	N.A.	4.30
90-150	141.15	N.A.	4.30
90-180	141.15	N.A.	4.30
110-180	24.96	N.A.	0.80
0-180	3260.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	97.02
10-20	277.85
20-30	421.32
30-40	508.38
40-50	527.38
50-60	483.13
60-70	387.77
70-80	265.59
80-90	151.22
90-100	77.57
100-110	38.63
110-120	17.64
120-130	6.31
130-140	1.00
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

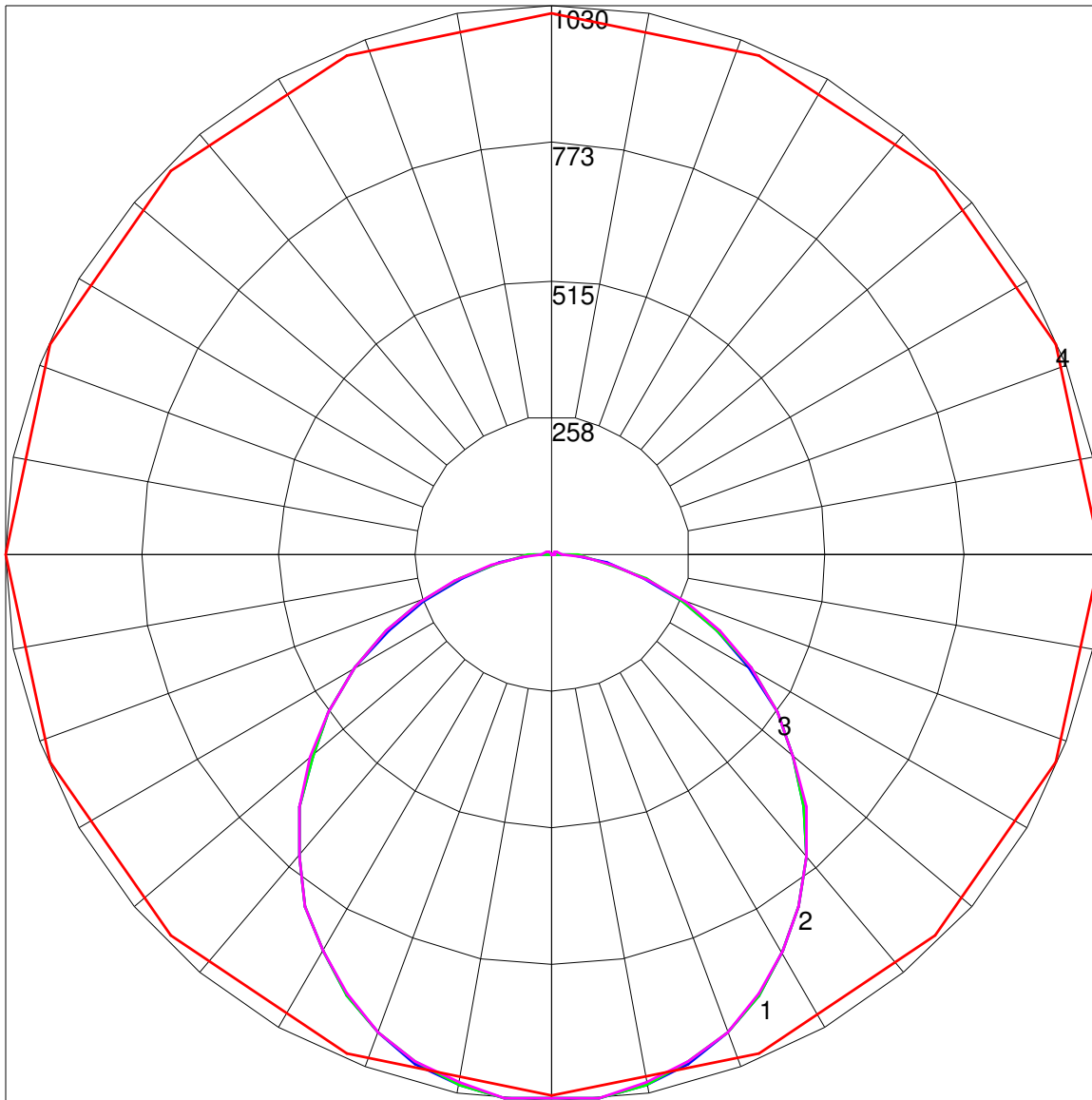
Reflectances

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	20.2	21.8	20.6	22.2	22.6	21.9	23.5	22.3	23.9	24.3
	3H	21.7	23.1	22.1	23.5	24.0	24.2	25.6	24.6	26.1	26.5
	4H	22.1	23.5	22.6	23.9	24.4	25.3	26.7	25.8	27.1	27.6
	6H	22.4	23.7	22.9	24.2	24.6	26.5	27.7	26.9	28.2	28.7
	8H	22.5	23.7	23.0	24.2	24.7	27.0	28.3	27.5	28.7	29.2
	12H	22.5	23.7	23.0	24.1	24.7	27.7	28.9	28.2	29.3	29.9
4H	2H	21.0	22.3	21.4	22.8	23.2	22.3	23.7	22.8	24.1	24.6
	3H	22.7	23.8	23.1	24.3	24.8	24.8	26.0	25.3	26.5	27.0
	4H	23.2	24.3	23.7	24.8	25.3	26.1	27.2	26.6	27.6	28.2
	6H	23.6	24.6	24.2	25.1	25.6	27.4	28.4	28.0	28.9	29.4
	8H	23.7	24.6	24.3	25.1	25.7	28.1	29.0	28.6	29.5	30.1
	12H	23.8	24.6	24.3	25.1	25.7	28.9	29.7	29.4	30.2	30.8
8H	4H	23.8	24.7	24.3	25.2	25.7	26.3	27.2	26.8	27.7	28.2
	6H	24.3	25.1	24.9	25.6	26.2	27.8	28.5	28.3	29.1	29.6
	8H	24.5	25.2	25.0	25.7	26.3	28.6	29.3	29.1	29.8	30.4
	12H	24.6	25.2	25.2	25.7	26.4	29.5	30.1	30.1	30.7	31.3
12H	4H	23.9	24.7	24.5	25.3	25.8	26.3	27.1	26.8	27.6	28.2
	6H	24.5	25.2	25.1	25.8	26.4	27.8	28.5	28.4	29.0	29.6
	8H	24.8	25.4	25.3	25.9	26.6	28.7	29.3	29.2	29.8	30.5

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 1030.067 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.)