



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L3-827-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] 72 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-6-L3-827-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1785
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	16.4
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)	6.00 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	7386	5943	5640
55	6983	5320	5088
65	6232	4577	4527
75	5249	3773	4030
85	2917	3136	3628

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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	562.136	562.136	562.136	562.136	562.136
5	563.976	561.216	557.536	556.616	557.536
10	555.696	552.936	549.255	549.255	551.095
15	543.735	540.975	537.295	538.215	538.215
20	525.335	522.575	517.975	521.655	522.575
25	502.334	499.574	498.654	501.414	503.254
30	473.813	473.813	473.813	477.493	476.573
35	443.452	443.452	443.452	447.133	449.893
40	406.651	407.571	408.491	414.932	418.612
45	367.090	369.850	372.610	379.971	382.731
50	323.849	326.609	333.049	344.090	349.610
55	282.448	283.368	295.328	304.529	312.809
60	234.607	239.207	255.767	273.248	278.768
65	186.765	194.125	213.446	232.767	241.047
70	142.604	149.964	173.885	197.806	205.166
75	97.523	110.403	137.084	163.765	174.805
80	57.042	70.842	106.723	133.404	145.364
85	19.321	45.081	78.202	104.883	116.843
90	0.000	24.841	57.962	81.882	91.083
95	0.000	12.880	39.561	63.482	71.762
100	0.000	6.440	27.601	46.921	55.202
105	0.000	3.680	19.321	34.041	41.401
110	0.000	2.760	12.880	24.841	29.441
115	0.000	1.840	8.280	17.480	22.081
120	0.000	0.000	4.600	11.040	13.800
125	0.000	0.000	3.680	7.360	9.200
130	0.000	0.000	0.000	4.600	5.520
135	0.000	0.000	0.000	0.000	3.680
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	205.25	N.A.	11.50
0-30	435.92	N.A.	24.40
0-40	714.27	N.A.	40.00
0-60	1267.54	N.A.	71.00
0-80	1625.26	N.A.	91.00
0-90	1708.05	N.A.	95.70
10-90	1654.93	N.A.	92.70
20-40	509.02	N.A.	28.50
20-50	797.77	N.A.	44.70
40-70	765.58	N.A.	42.90
60-80	357.72	N.A.	20.00
70-80	145.41	N.A.	8.10
80-90	82.79	N.A.	4.60
90-110	63.62	N.A.	3.60
90-120	73.28	N.A.	4.10
90-130	76.73	N.A.	4.30
90-150	77.28	N.A.	4.30
90-180	77.28	N.A.	4.30
110-180	13.67	N.A.	0.80
0-180	1785.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.12
10-20	152.13
20-30	230.68
30-40	278.35
40-50	288.75
50-60	264.52
60-70	212.31
70-80	145.41
80-90	82.79
90-100	42.47
100-110	21.15
110-120	9.66
120-130	3.46
130-140	0.55
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	56	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

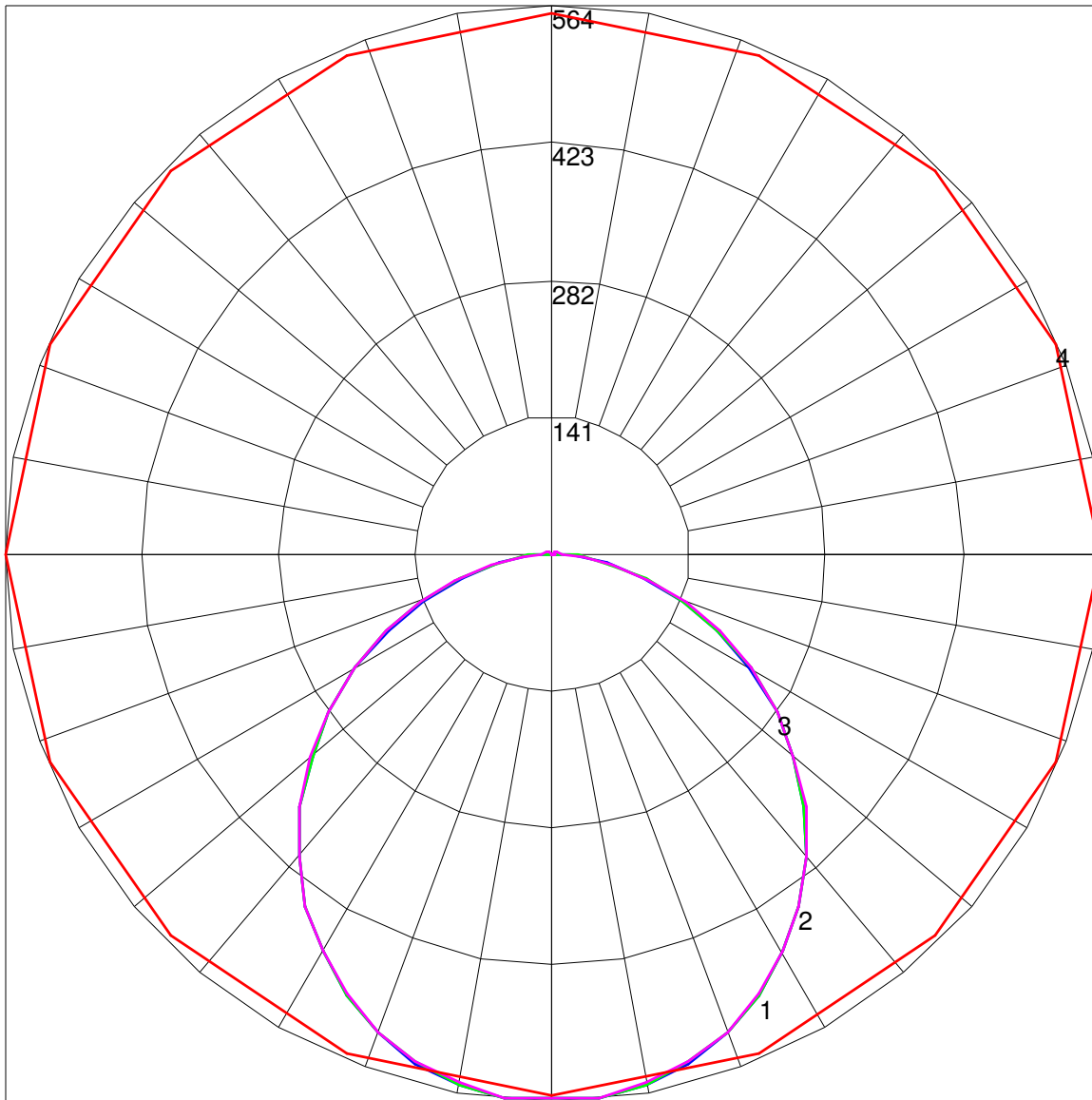
Reflectances

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	16.7	18.3	17.1	18.7	19.1	18.4	20.0	18.8	20.4	20.8
	3H	18.2	19.6	18.6	20.0	20.5	20.7	22.2	21.1	22.6	23.0
	4H	18.6	20.0	19.1	20.4	20.9	21.8	23.2	22.3	23.6	24.1
	6H	18.9	20.2	19.4	20.6	21.1	23.0	24.3	23.5	24.7	25.2
	8H	19.0	20.2	19.5	20.7	21.2	23.6	24.8	24.1	25.3	25.8
	12H	19.0	20.2	19.5	20.6	21.2	24.3	25.4	24.7	25.9	26.4
4H	2H	17.5	18.8	17.9	19.3	19.7	18.8	20.2	19.3	20.6	21.1
	3H	19.2	20.3	19.6	20.8	21.3	21.3	22.5	21.8	23.0	23.5
	4H	19.7	20.8	20.2	21.3	21.8	22.6	23.7	23.1	24.2	24.7
	6H	20.1	21.1	20.7	21.6	22.1	24.0	24.9	24.5	25.4	26.0
	8H	20.2	21.1	20.8	21.6	22.2	24.7	25.5	25.2	26.1	26.6
	12H	20.3	21.1	20.8	21.6	22.2	25.4	26.2	26.0	26.8	27.3
8H	4H	20.3	21.2	20.8	21.7	22.2	22.8	23.7	23.3	24.2	24.8
	6H	20.8	21.6	21.4	22.1	22.7	24.3	25.0	24.8	25.6	26.2
	8H	21.0	21.7	21.5	22.2	22.8	25.1	25.8	25.7	26.4	26.9
	12H	21.1	21.7	21.7	22.2	22.9	26.1	26.7	26.6	27.2	27.9
12H	4H	20.4	21.2	21.0	21.8	22.3	22.8	23.6	23.4	24.2	24.7
	6H	21.0	21.7	21.6	22.3	22.9	24.3	25.0	24.9	25.5	26.2
	8H	21.3	21.9	21.9	22.4	23.1	25.2	25.8	25.8	26.4	27.0

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 563.976 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.)