



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L5-927-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-L5-927-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	17.3
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	9997	8057	7664
55	9435	7209	6913
65	8398	6196	6152
75	7033	5100	5475
85	3807	4229	4930

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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	509.198	509.198	509.198	509.198	509.198
5	510.865	508.365	505.031	504.198	505.031
10	503.364	500.864	497.531	497.531	499.198
15	492.530	490.030	486.697	487.530	487.530
20	475.863	473.363	469.196	472.529	473.363
25	455.028	452.528	451.695	454.195	455.862
30	429.193	429.193	429.193	432.527	431.693
35	401.692	401.692	401.692	405.025	407.525
40	368.356	369.189	370.023	375.857	379.190
45	332.521	335.021	337.521	344.188	346.688
50	293.351	295.852	301.685	311.686	316.686
55	255.849	256.683	267.517	275.850	283.351
60	212.513	216.680	231.681	247.515	252.516
65	169.177	175.844	193.345	210.846	218.347
70	129.175	135.842	157.510	179.178	185.845
75	88.339	100.006	124.174	148.343	158.343
80	51.670	64.171	96.673	120.841	131.675
85	17.501	40.836	70.838	95.006	105.840
90	0.000	22.501	52.503	74.171	82.505
95	0.000	11.667	35.836	57.504	65.004
100	0.000	5.834	25.002	42.503	50.003
105	0.000	3.334	17.501	30.835	37.502
110	0.000	2.500	11.667	22.501	26.668
115	0.000	1.667	7.500	15.834	20.001
120	0.000	0.000	4.167	10.001	12.501
125	0.000	0.000	3.334	6.667	8.334
130	0.000	0.000	0.000	4.167	5.000
135	0.000	0.000	0.000	0.000	3.334
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	185.92	N.A.	11.50
0-30	394.87	N.A.	24.40
0-40	647.01	N.A.	40.00
0-60	1148.17	N.A.	71.00
0-80	1472.21	N.A.	91.00
0-90	1547.2	N.A.	95.70
10-90	1499.08	N.A.	92.70
20-40	461.09	N.A.	28.50
20-50	722.65	N.A.	44.70
40-70	693.48	N.A.	42.90
60-80	324.03	N.A.	20.00
70-80	131.72	N.A.	8.10
80-90	75.00	N.A.	4.60
90-110	57.63	N.A.	3.60
90-120	66.38	N.A.	4.10
90-130	69.51	N.A.	4.30
90-150	70.01	N.A.	4.30
90-180	70.01	N.A.	4.30
110-180	12.38	N.A.	0.80
0-180	1617.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.12
10-20	137.80
20-30	208.96
30-40	252.13
40-50	261.56
50-60	239.61
60-70	192.32
70-80	131.72
80-90	75.00
90-100	38.47
100-110	19.16
110-120	8.75
120-130	3.13
130-140	0.50
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

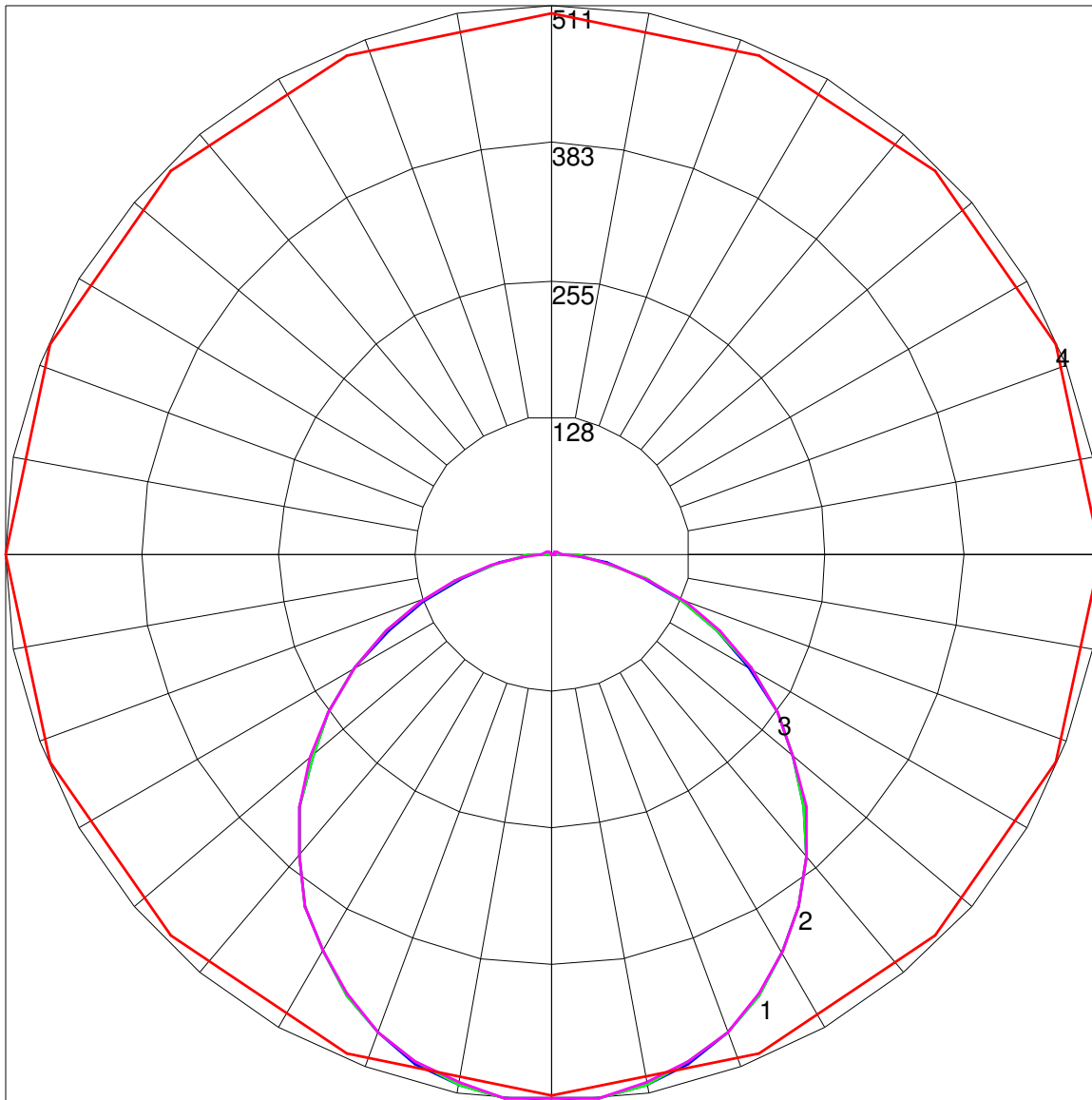
Reflectances

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	17.8	19.4	18.2	19.8	20.2	19.5	21.1	19.9	21.5	21.9
	3H	19.3	20.7	19.7	21.1	21.6	21.8	23.2	22.2	23.7	24.1
	4H	19.7	21.1	20.2	21.5	22.0	22.9	24.3	23.4	24.7	25.2
	6H	20.0	21.3	20.5	21.8	22.2	24.1	25.3	24.5	25.8	26.3
	8H	20.1	21.3	20.6	21.8	22.3	24.7	25.9	25.2	26.4	26.8
	12H	20.1	21.3	20.6	21.7	22.3	25.3	26.5	25.8	26.9	27.5
4H	2H	18.6	20.0	19.0	20.4	20.8	19.9	21.3	20.4	21.7	22.2
	3H	20.3	21.4	20.7	21.9	22.4	22.4	23.6	22.9	24.1	24.6
	4H	20.8	21.9	21.3	22.4	22.9	23.7	24.8	24.2	25.2	25.8
	6H	21.2	22.2	21.8	22.7	23.2	25.0	26.0	25.6	26.5	27.0
	8H	21.3	22.2	21.9	22.7	23.3	25.7	26.6	26.2	27.1	27.7
	12H	21.4	22.2	21.9	22.7	23.3	26.5	27.3	27.0	27.8	28.4
8H	4H	21.4	22.3	21.9	22.8	23.3	23.9	24.8	24.4	25.3	25.8
	6H	21.9	22.7	22.5	23.2	23.8	25.4	26.1	25.9	26.7	27.2
	8H	22.1	22.8	22.6	23.3	23.9	26.2	26.9	26.7	27.4	28.0
	12H	22.2	22.8	22.8	23.3	24.0	27.1	27.7	27.7	28.3	28.9
12H	4H	21.5	22.3	22.1	22.9	23.4	23.9	24.7	24.4	25.2	25.8
	6H	22.1	22.8	22.7	23.4	24.0	25.4	26.1	26.0	26.6	27.2
	8H	22.4	23.0	23.0	23.5	24.2	26.3	26.9	26.8	27.4	28.1

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 510.865 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.)