



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L5-950-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-L5-950-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1799
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	11121	8964	8526
55	10497	8019	7691
65	9343	6893	6844
75	7824	5674	6091
85	4236	4704	5485

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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	566.483	566.483	566.483	566.483	566.483
5	568.337	565.556	561.847	560.920	561.847
10	559.993	557.212	553.503	553.503	555.357
15	547.940	545.159	541.450	542.377	542.377
20	529.397	526.616	521.980	525.689	526.616
25	506.219	503.437	502.510	505.292	507.146
30	477.477	477.477	477.477	481.186	480.259
35	446.882	446.882	446.882	450.590	453.372
40	409.796	410.723	411.650	418.140	421.849
45	369.929	372.711	375.492	382.909	385.691
50	326.354	329.135	335.625	346.751	352.313
55	284.632	285.559	297.612	306.884	315.228
60	236.421	241.057	257.745	275.361	280.924
65	188.210	195.627	215.097	234.567	242.911
70	143.707	151.124	175.230	199.335	206.752
75	98.277	111.257	138.144	165.031	176.157
80	57.483	71.390	107.548	134.435	146.488
85	19.470	45.430	78.807	105.694	117.747
90	0.000	25.033	58.410	82.516	91.787
95	0.000	12.980	39.867	63.973	72.317
100	0.000	6.490	27.814	47.284	55.628
105	0.000	3.709	19.470	34.304	41.721
110	0.000	2.781	12.980	25.033	29.669
115	0.000	1.854	8.344	17.616	22.251
120	0.000	0.000	4.636	11.126	13.907
125	0.000	0.000	3.709	7.417	9.271
130	0.000	0.000	0.000	4.636	5.563
135	0.000	0.000	0.000	0.000	3.709
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	206.83	N.A.	11.50
0-30	439.30	N.A.	24.40
0-40	719.79	N.A.	40.00
0-60	1277.34	N.A.	71.00
0-80	1637.83	N.A.	91.00
0-90	1721.26	N.A.	95.70
10-90	1667.73	N.A.	92.70
20-40	512.96	N.A.	28.50
20-50	803.94	N.A.	44.70
40-70	771.50	N.A.	42.90
60-80	360.49	N.A.	20.00
70-80	146.54	N.A.	8.10
80-90	83.43	N.A.	4.60
90-110	64.11	N.A.	3.60
90-120	73.84	N.A.	4.10
90-130	77.33	N.A.	4.30
90-150	77.88	N.A.	4.30
90-180	77.88	N.A.	4.30
110-180	13.77	N.A.	0.80
0-180	1799.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.53
10-20	153.30
20-30	232.46
30-40	280.50
40-50	290.98
50-60	266.56
60-70	213.95
70-80	146.54
80-90	83.43
90-100	42.80
100-110	21.31
110-120	9.73
120-130	3.48
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	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

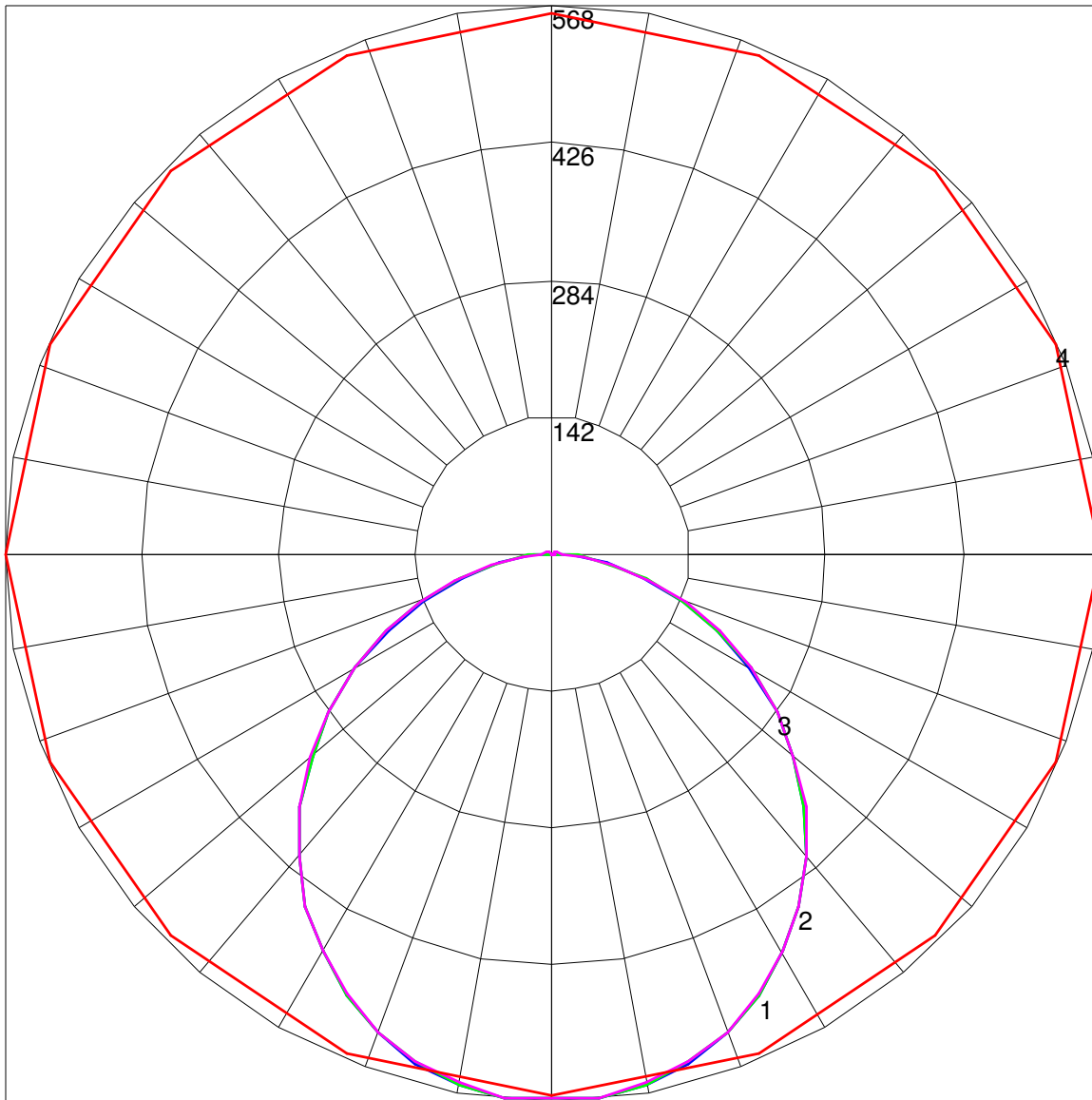
Reflectances

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	18.1	19.7	18.5	20.1	20.5	19.8	21.4	20.2	21.8	22.2
	3H	19.6	21.0	20.0	21.4	21.9	22.1	23.5	22.5	24.0	24.4
	4H	20.0	21.4	20.5	21.8	22.3	23.2	24.6	23.7	25.0	25.5
	6H	20.3	21.6	20.8	22.1	22.5	24.4	25.6	24.8	26.1	26.6
	8H	20.4	21.6	20.9	22.1	22.6	24.9	26.2	25.4	26.6	27.1
	12H	20.4	21.6	20.9	22.0	22.6	25.6	26.8	26.1	27.2	27.8
4H	2H	18.9	20.3	19.3	20.7	21.1	20.2	21.6	20.7	22.0	22.5
	3H	20.6	21.7	21.0	22.2	22.7	22.7	23.9	23.2	24.4	24.9
	4H	21.1	22.2	21.6	22.7	23.2	24.0	25.1	24.5	25.5	26.1
	6H	21.5	22.5	22.1	23.0	23.5	25.3	26.3	25.9	26.8	27.3
	8H	21.6	22.5	22.2	23.0	23.6	26.0	26.9	26.5	27.4	28.0
	12H	21.7	22.5	22.2	23.0	23.6	26.8	27.6	27.3	28.1	28.7
8H	4H	21.7	22.6	22.2	23.1	23.6	24.2	25.1	24.7	25.6	26.1
	6H	22.2	23.0	22.8	23.5	24.1	25.7	26.4	26.2	27.0	27.5
	8H	22.4	23.1	22.9	23.6	24.2	26.5	27.2	27.0	27.7	28.3
	12H	22.5	23.1	23.1	23.6	24.3	27.4	28.0	28.0	28.6	29.2
12H	4H	21.8	22.6	22.4	23.2	23.7	24.2	25.0	24.7	25.5	26.1
	6H	22.4	23.1	23.0	23.7	24.3	25.7	26.4	26.3	26.9	27.5
	8H	22.7	23.3	23.3	23.8	24.5	26.6	27.2	27.1	27.7	28.4

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 568.337 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.)