



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-4-L5-830-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] 1.5x24"ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[MORE] 0-10V REMOTE DRIVER ENCLOSURE
[LUMCAT] SL-4-L5-830-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2001
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
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	12371	9971	9484
55	11676	8921	8555
65	10393	7668	7613
75	8703	6311	6776
85	4712	5233	6101

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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	630.133	630.133	630.133	630.133	630.133
5	632.195	629.102	624.976	623.945	624.976
10	622.914	619.820	615.694	615.694	617.757
15	609.507	606.413	602.287	603.319	603.319
20	588.880	585.786	580.630	584.755	585.786
25	563.097	560.004	558.972	562.066	564.129
30	531.127	531.127	531.127	535.252	534.221
35	497.093	497.093	497.093	501.219	504.313
40	455.841	456.872	457.903	465.123	469.248
45	411.494	414.588	417.682	425.933	429.027
50	363.023	366.116	373.336	385.711	391.899
55	316.613	317.645	331.052	341.365	350.647
60	262.985	268.142	286.705	306.300	312.488
65	209.357	217.607	239.265	260.922	270.204
70	159.854	168.104	194.918	221.733	229.983
75	109.319	123.758	153.666	183.574	195.950
80	63.941	79.411	119.632	149.541	162.948
85	21.658	50.534	87.662	117.570	130.977
90	0.000	27.845	64.973	91.787	102.100
95	0.000	14.438	44.347	71.161	80.442
100	0.000	7.219	30.939	52.597	61.879
105	0.000	4.125	21.658	38.159	46.409
110	0.000	3.094	14.438	27.845	33.002
115	0.000	2.063	9.282	19.595	24.752
120	0.000	0.000	5.157	12.376	15.470
125	0.000	0.000	4.125	8.251	10.313
130	0.000	0.000	0.000	5.157	6.188
135	0.000	0.000	0.000	0.000	4.125
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	230.07	N.A.	11.50
0-30	488.65	N.A.	24.40
0-40	800.67	N.A.	40.00
0-60	1420.86	N.A.	71.00
0-80	1821.86	N.A.	91.00
0-90	1914.66	N.A.	95.70
10-90	1855.12	N.A.	92.70
20-40	570.60	N.A.	28.50
20-50	894.27	N.A.	44.70
40-70	858.19	N.A.	42.90
60-80	400.99	N.A.	20.00
70-80	163.00	N.A.	8.10
80-90	92.81	N.A.	4.60
90-110	71.31	N.A.	3.60
90-120	82.14	N.A.	4.10
90-130	86.02	N.A.	4.30
90-150	86.63	N.A.	4.30
90-180	86.63	N.A.	4.30
110-180	15.32	N.A.	0.80
0-180	2001.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	59.55
10-20	170.53
20-30	258.58
30-40	312.01
40-50	323.68
50-60	296.52
60-70	237.99
70-80	163.00
80-90	92.81
90-100	47.61
100-110	23.71
110-120	10.83
120-130	3.87
130-140	0.62
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

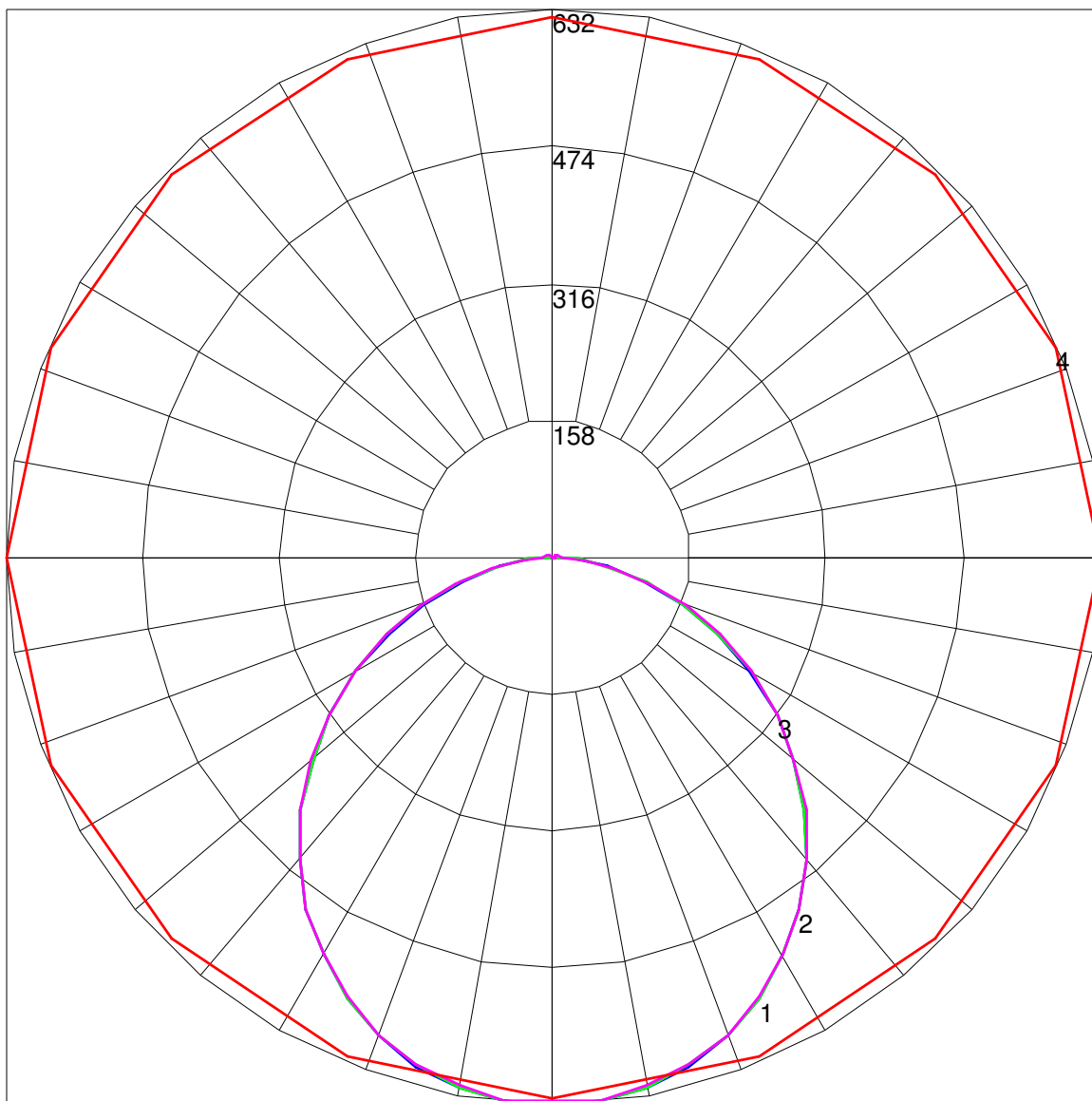
Reflectances

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	18.5	20.1	18.9	20.5	20.9	20.2	21.8	20.6	22.2	22.6
	3H	20.0	21.4	20.4	21.8	22.3	22.5	23.9	22.9	24.4	24.8
	4H	20.4	21.8	20.9	22.2	22.7	23.6	25.0	24.1	25.4	25.9
	6H	20.7	22.0	21.2	22.5	22.9	24.8	26.0	25.2	26.5	27.0
	8H	20.8	22.0	21.3	22.5	23.0	25.4	26.6	25.9	27.1	27.5
	12H	20.8	22.0	21.3	22.4	23.0	26.0	27.2	26.5	27.6	28.2
4H	2H	19.3	20.7	19.7	21.1	21.5	20.6	22.0	21.1	22.4	22.9
	3H	21.0	22.1	21.4	22.6	23.1	23.1	24.3	23.6	24.8	25.3
	4H	21.5	22.6	22.0	23.1	23.6	24.4	25.5	24.9	25.9	26.5
	6H	21.9	22.9	22.5	23.4	23.9	25.7	26.7	26.3	27.2	27.7
	8H	22.0	22.9	22.6	23.4	24.0	26.4	27.3	26.9	27.8	28.4
	12H	22.1	22.9	22.6	23.4	24.0	27.2	28.0	27.7	28.5	29.1
8H	4H	22.1	23.0	22.6	23.5	24.0	24.6	25.5	25.1	26.0	26.5
	6H	22.6	23.4	23.2	23.9	24.5	26.1	26.8	26.6	27.4	27.9
	8H	22.8	23.5	23.3	24.0	24.6	26.9	27.6	27.4	28.1	28.7
	12H	22.9	23.5	23.5	24.0	24.7	27.8	28.4	28.4	29.0	29.6
12H	4H	22.2	23.0	22.8	23.6	24.1	24.6	25.4	25.1	25.9	26.5
	6H	22.8	23.5	23.4	24.1	24.7	26.1	26.8	26.7	27.3	27.9
	8H	23.1	23.7	23.7	24.2	24.9	27.0	27.6	27.5	28.1	28.8

Maximum UGR = 29.6

POLAR GRAPH



Maximum Candela = 632.195 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.)