



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-4-L10-930-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-L10-930-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3342
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	20660	16652	15838
55	19500	14898	14287
65	17357	12806	12714
75	14534	10541	11316
85	7869	8739	10189

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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	1052.374	1052.374	1052.374	1052.374	1052.374
5	1055.819	1050.652	1043.762	1042.040	1043.762
10	1040.318	1035.150	1028.261	1028.261	1031.706
15	1017.927	1012.759	1005.870	1007.592	1007.592
20	983.479	978.312	969.700	976.589	978.312
25	940.420	935.252	933.530	938.697	942.142
30	887.026	887.026	887.026	893.915	892.193
35	830.187	830.187	830.187	837.077	842.244
40	761.292	763.014	764.737	776.793	783.683
45	687.230	692.397	697.564	711.343	716.510
50	606.278	611.445	623.502	644.170	654.504
55	528.771	530.493	552.884	570.108	585.609
60	439.207	447.819	478.822	511.547	521.881
65	349.643	363.422	399.592	435.762	451.264
70	266.969	280.748	325.530	370.312	384.091
75	182.572	206.686	256.635	306.584	327.252
80	106.788	132.623	199.796	249.745	272.136
85	36.170	84.397	146.402	196.351	218.742
90	0.000	46.504	108.510	153.292	170.516
95	0.000	24.113	74.062	118.844	134.346
100	0.000	12.057	51.671	87.841	103.343
105	0.000	6.890	36.170	63.728	77.507
110	0.000	5.167	24.113	46.504	55.116
115	0.000	3.445	15.501	32.725	41.337
120	0.000	0.000	8.612	20.669	25.836
125	0.000	0.000	6.890	13.779	17.224
130	0.000	0.000	0.000	8.612	10.334
135	0.000	0.000	0.000	0.000	6.890
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	384.24	N.A.	11.50
0-30	816.09	N.A.	24.40
0-40	1337.18	N.A.	40.00
0-60	2372.96	N.A.	71.00
0-80	3042.65	N.A.	91.00
0-90	3197.65	N.A.	95.70
10-90	3098.2	N.A.	92.70
20-40	952.94	N.A.	28.50
20-50	1493.51	N.A.	44.70
40-70	1433.24	N.A.	42.90
60-80	669.69	N.A.	20.00
70-80	272.23	N.A.	8.10
80-90	155.00	N.A.	4.60
90-110	119.10	N.A.	3.60
90-120	137.18	N.A.	4.10
90-130	143.65	N.A.	4.30
90-150	144.68	N.A.	4.30
90-180	144.68	N.A.	4.30
110-180	25.58	N.A.	0.80
0-180	3342.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.45
10-20	284.79
20-30	431.85
30-40	521.09
40-50	540.57
50-60	495.21
60-70	397.47
70-80	272.23
80-90	155.00
90-100	79.51
100-110	39.59
110-120	18.08
120-130	6.47
130-140	1.03
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

X=2H	Y=2H	20.3	21.9	20.7	22.3	22.7	22.0	23.6	22.4	24.0	24.4
	3H	21.8	23.2	22.2	23.6	24.1	24.3	25.7	24.7	26.2	26.6
	4H	22.2	23.6	22.7	24.0	24.5	25.4	26.8	25.9	27.2	27.7
	6H	22.5	23.8	23.0	24.3	24.7	26.6	27.8	27.0	28.3	28.8
	8H	22.6	23.8	23.1	24.3	24.8	27.1	28.4	27.6	28.8	29.3
	12H	22.6	23.8	23.1	24.2	24.8	27.8	29.0	28.3	29.4	30.0

UGR Viewed Endwise

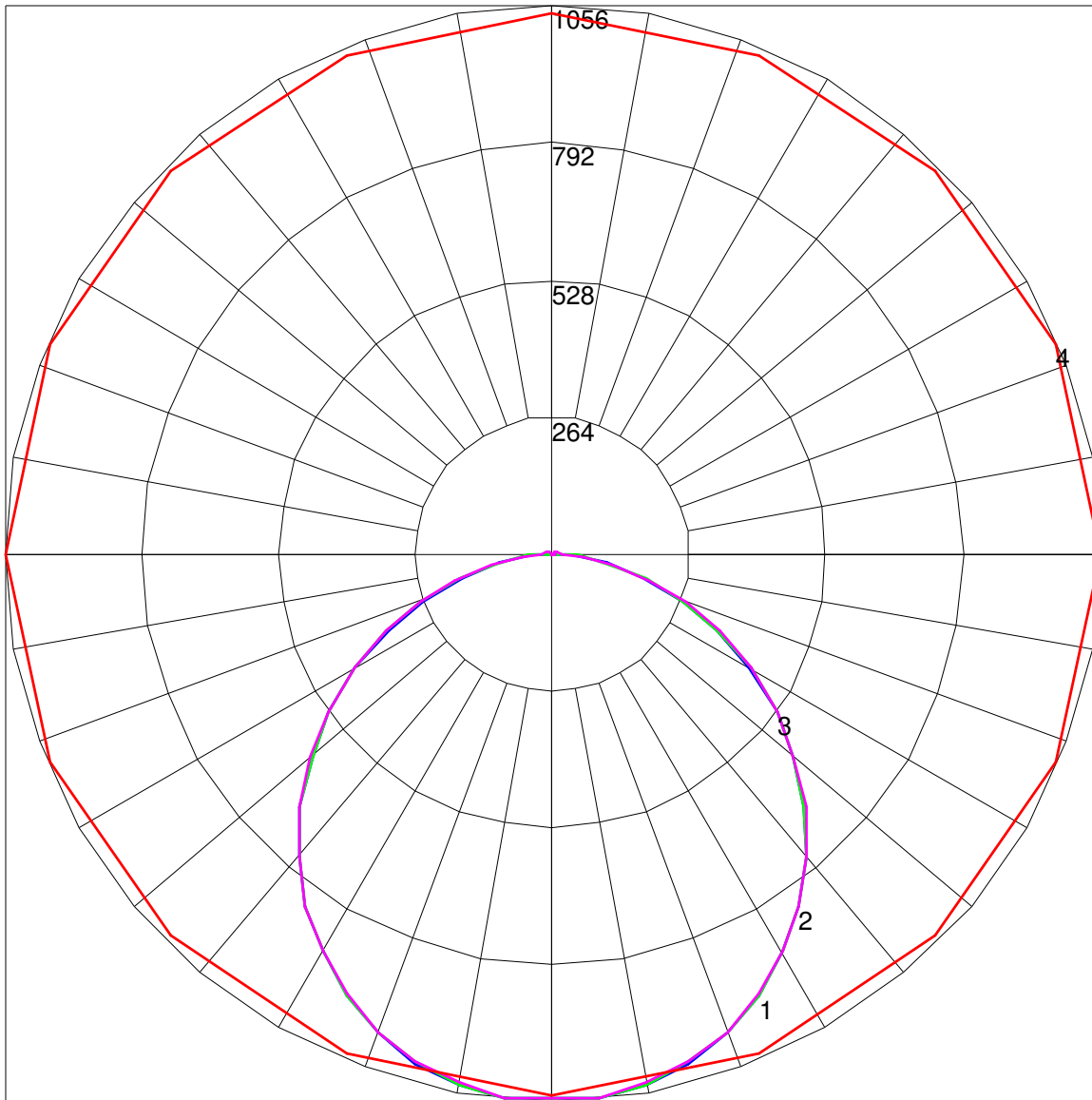
4H	2H	21.1	22.5	21.5	22.9	23.3	22.4	23.8	22.9	24.2	24.7
	3H	22.8	23.9	23.2	24.4	24.9	24.9	26.1	25.4	26.6	27.1
	4H	23.3	24.4	23.8	24.9	25.4	26.2	27.3	26.7	27.7	28.3
	6H	23.7	24.7	24.3	25.2	25.7	27.5	28.5	28.1	29.0	29.5
	8H	23.8	24.7	24.4	25.2	25.8	28.2	29.1	28.7	29.6	30.2
	12H	23.9	24.7	24.4	25.2	25.8	29.0	29.8	29.5	30.3	30.9

8H	4H	23.9	24.8	24.4	25.3	25.8	26.4	27.3	26.9	27.8	28.3
	6H	24.4	25.2	25.0	25.7	26.3	27.9	28.6	28.4	29.2	29.7
	8H	24.6	25.3	25.1	25.8	26.4	28.7	29.4	29.2	29.9	30.5
	12H	24.7	25.3	25.3	25.8	26.5	29.6	30.2	30.2	30.8	31.4

12H	4H	24.0	24.8	24.6	25.4	25.9	26.4	27.2	26.9	27.7	28.3
	6H	24.6	25.3	25.2	25.9	26.5	27.9	28.6	28.5	29.1	29.7
	8H	24.9	25.5	25.5	26.0	26.7	28.8	29.4	29.3	29.9	30.6

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1055.819 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.)