



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L10-840-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] 24 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-2-L10-840-RD-DIM-UNV
 [LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2039
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	17.8
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)	2.00 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	24917	20184	19324
55	23405	18023	17431
65	20668	15451	15512
75	17018	12666	13806
85	8584	10423	12431

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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	641.975	641.975	641.975	641.975	641.975
5	644.077	640.925	636.722	635.671	636.722
10	634.620	631.468	627.266	627.266	629.367
15	620.961	617.809	613.606	614.657	614.657
20	599.947	596.795	591.542	595.745	596.795
25	573.680	570.528	569.477	572.629	574.731
30	541.108	541.108	541.108	545.311	544.261
35	506.435	506.435	506.435	510.638	513.790
40	464.408	465.458	466.509	473.864	478.067
45	419.228	422.380	425.532	433.937	437.090
50	369.845	372.997	380.352	392.960	399.264
55	322.564	323.614	337.273	347.780	357.237
60	267.927	273.181	292.093	312.057	318.361
65	213.291	221.697	243.761	265.826	275.282
70	162.858	171.263	198.582	225.900	234.305
75	111.374	126.084	156.554	187.024	199.632
80	65.143	80.904	121.881	152.351	166.010
85	22.065	51.484	89.309	119.779	133.438
90	0.000	28.369	66.194	93.512	104.019
95	0.000	14.710	45.180	72.498	81.954
100	0.000	7.355	31.521	53.585	63.042
105	0.000	4.203	22.065	38.876	47.281
110	0.000	3.152	14.710	28.369	33.622
115	0.000	2.101	9.456	19.963	25.217
120	0.000	0.000	5.253	12.608	15.760
125	0.000	0.000	4.203	8.406	10.507
130	0.000	0.000	0.000	5.253	6.304
135	0.000	0.000	0.000	0.000	4.203
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	234.40	N.A.	11.50
0-30	497.84	N.A.	24.40
0-40	815.72	N.A.	40.00
0-60	1447.57	N.A.	71.00
0-80	1856.09	N.A.	91.00
0-90	1950.65	N.A.	95.70
10-90	1889.98	N.A.	92.70
20-40	581.32	N.A.	28.50
20-50	911.08	N.A.	44.70
40-70	874.31	N.A.	42.90
60-80	408.53	N.A.	20.00
70-80	166.06	N.A.	8.10
80-90	94.55	N.A.	4.60
90-110	72.65	N.A.	3.60
90-120	83.68	N.A.	4.10
90-130	87.63	N.A.	4.30
90-150	88.26	N.A.	4.30
90-180	88.26	N.A.	4.30
110-180	15.61	N.A.	0.80
0-180	2038.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.66
10-20	173.73
20-30	263.44
30-40	317.88
40-50	329.76
50-60	302.09
60-70	242.46
70-80	166.06
80-90	94.55
90-100	48.50
100-110	24.15
110-120	11.03
120-130	3.95
130-140	0.63
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	58	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	21.0	22.6	21.4	23.0	23.4	22.7	24.2	23.1	24.6	25.1
	3H	22.5	23.9	22.9	24.3	24.8	24.9	26.4	25.4	26.8	27.2
	4H	22.9	24.3	23.4	24.7	25.2	26.0	27.4	26.5	27.8	28.3
	6H	23.2	24.5	23.7	24.9	25.4	27.2	28.4	27.6	28.9	29.4
	8H	23.3	24.5	23.8	25.0	25.5	27.7	29.0	28.2	29.4	29.9
	12H	23.3	24.5	23.8	24.9	25.5	28.4	29.5	28.9	30.0	30.5

UGR Viewed Endwise

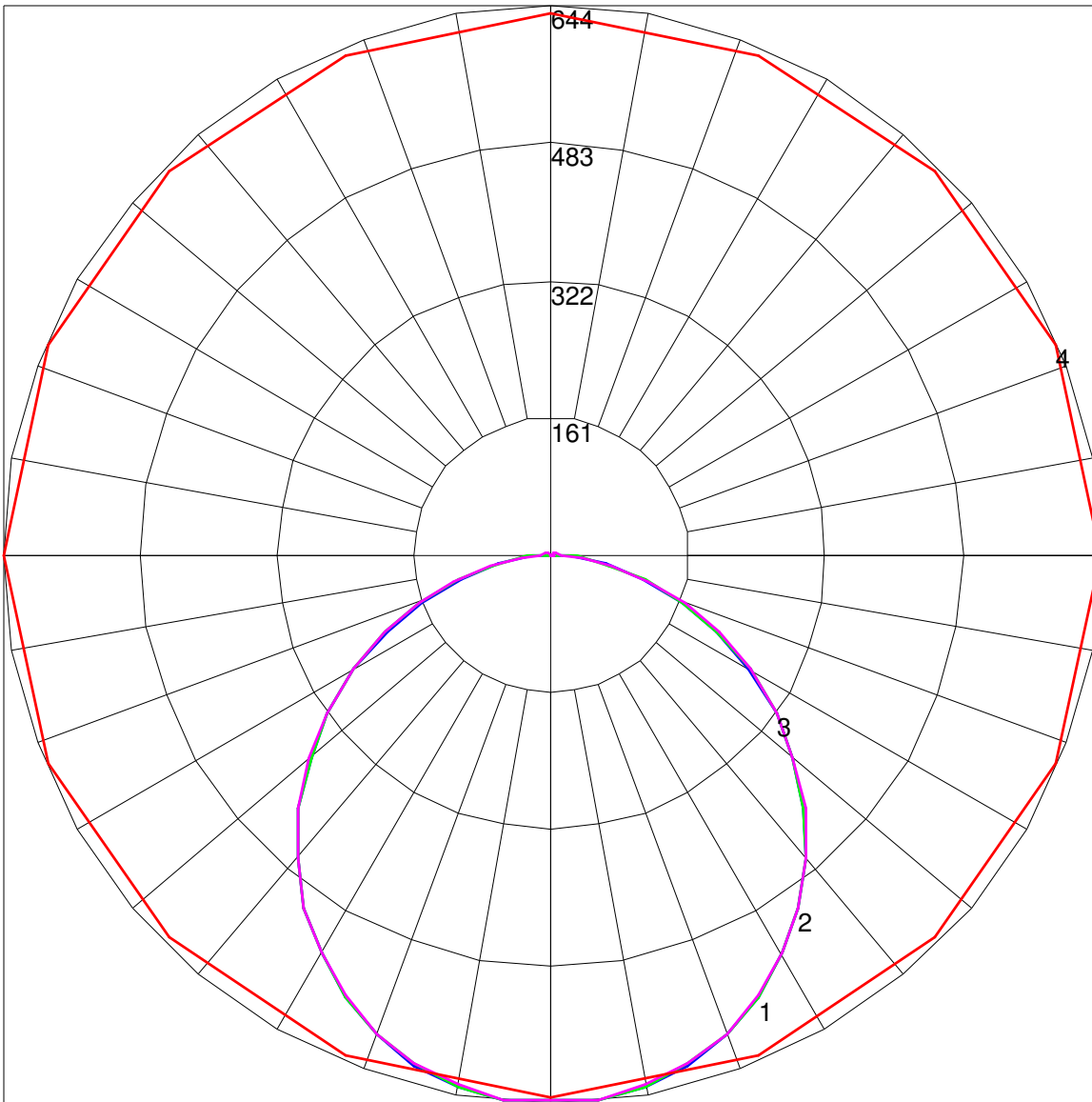
4H	2H	21.8	23.1	22.2	23.6	24.0	23.1	24.4	23.5	24.9	25.3
	3H	23.4	24.6	23.9	25.1	25.6	25.6	26.7	26.1	27.2	27.7
	4H	24.0	25.1	24.5	25.6	26.1	26.8	27.9	27.3	28.4	28.9
	6H	24.4	25.4	24.9	25.9	26.4	28.1	29.1	28.7	29.6	30.1
	8H	24.5	25.4	25.0	25.9	26.5	28.8	29.7	29.3	30.2	30.8
	12H	24.6	25.4	25.1	25.9	26.5	29.6	30.4	30.1	30.9	31.5

8H	4H	24.6	25.5	25.1	26.0	26.5	27.0	27.9	27.5	28.4	29.0
	6H	25.1	25.8	25.6	26.4	27.0	28.5	29.2	29.0	29.8	30.3
	8H	25.3	25.9	25.8	26.5	27.1	29.3	30.0	29.8	30.5	31.1
	12H	25.4	26.0	25.9	26.5	27.2	30.2	30.8	30.7	31.3	32.0

12H	4H	24.7	25.5	25.3	26.1	26.6	27.0	27.8	27.6	28.4	28.9
	6H	25.3	26.0	25.9	26.5	27.2	28.5	29.2	29.1	29.7	30.3
	8H	25.6	26.2	26.1	26.7	27.4	29.4	30.0	29.9	30.5	31.2

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 644.077 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.)