



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L10-935-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-L10-935-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1643
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
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	20079	16265	15572
55	18860	14523	14046
65	16655	12451	12500
75	13713	10206	11125
85	6917	8399	10018

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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	517.320	517.320	517.320	517.320	517.320
5	519.013	516.473	513.086	512.240	513.086
10	511.393	508.853	505.466	505.466	507.159
15	500.386	497.846	494.459	495.306	495.306
20	483.453	480.912	476.679	480.066	480.912
25	462.286	459.746	458.899	461.439	463.132
30	436.039	436.039	436.039	439.425	438.579
35	408.098	408.098	408.098	411.485	414.025
40	374.231	375.078	375.925	381.851	385.238
45	337.824	340.364	342.904	349.678	352.218
50	298.030	300.570	306.497	316.657	321.737
55	259.930	260.776	271.783	280.250	287.870
60	215.903	220.136	235.376	251.463	256.543
65	171.875	178.649	196.429	214.209	221.829
70	131.235	138.008	160.022	182.036	188.809
75	89.748	101.601	126.155	150.708	160.869
80	52.494	65.194	98.215	122.768	133.775
85	17.780	41.487	71.968	96.521	107.528
90	0.000	22.860	53.341	75.354	83.821
95	0.000	11.853	36.407	58.421	66.041
100	0.000	5.927	25.400	43.181	50.801
105	0.000	3.387	17.780	31.327	38.100
110	0.000	2.540	11.853	22.860	27.094
115	0.000	1.693	7.620	16.087	20.320
120	0.000	0.000	4.233	10.160	12.700
125	0.000	0.000	3.387	6.773	8.467
130	0.000	0.000	0.000	4.233	5.080
135	0.000	0.000	0.000	0.000	3.387
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	188.88	N.A.	11.50
0-30	401.17	N.A.	24.40
0-40	657.32	N.A.	40.00
0-60	1166.48	N.A.	71.00
0-80	1495.69	N.A.	91.00
0-90	1571.88	N.A.	95.70
10-90	1522.99	N.A.	92.70
20-40	468.44	N.A.	28.50
20-50	734.17	N.A.	44.70
40-70	704.54	N.A.	42.90
60-80	329.20	N.A.	20.00
70-80	133.82	N.A.	8.10
80-90	76.19	N.A.	4.60
90-110	58.55	N.A.	3.60
90-120	67.44	N.A.	4.10
90-130	70.62	N.A.	4.30
90-150	71.12	N.A.	4.30
90-180	71.12	N.A.	4.30
110-180	12.58	N.A.	0.80
0-180	1643.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.89
10-20	140.00
20-30	212.29
30-40	256.15
40-50	265.73
50-60	243.43
60-70	195.38
70-80	133.82
80-90	76.19
90-100	39.08
100-110	19.46
110-120	8.89
120-130	3.18
130-140	0.51
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	20.2	21.8	20.6	22.2	22.6	21.9	23.4	22.3	23.8	24.3
	3H	21.7	23.1	22.1	23.5	24.0	24.1	25.6	24.6	26.0	26.4
	4H	22.1	23.5	22.6	23.9	24.4	25.2	26.6	25.7	27.0	27.5
	6H	22.4	23.7	22.9	24.1	24.6	26.4	27.6	26.8	28.1	28.6
	8H	22.5	23.7	23.0	24.2	24.7	26.9	28.2	27.4	28.6	29.1
	12H	22.5	23.7	23.0	24.1	24.7	27.6	28.7	28.1	29.2	29.7

UGR Viewed Endwise

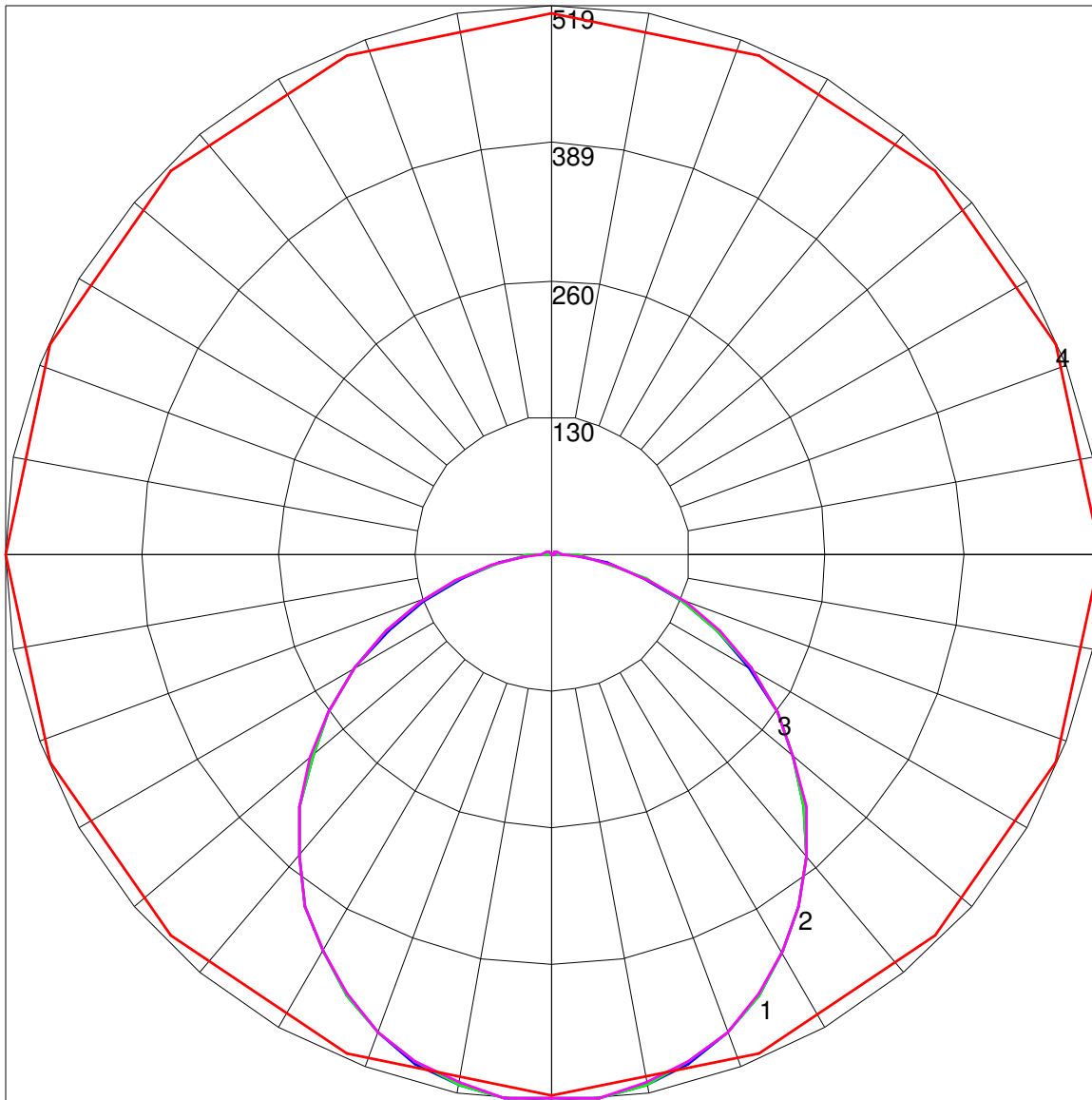
4H	2H	21.0	22.3	21.4	22.8	23.2	22.3	23.6	22.7	24.1	24.5
	3H	22.6	23.8	23.1	24.3	24.8	24.8	25.9	25.3	26.4	26.9
	4H	23.2	24.3	23.7	24.8	25.3	26.0	27.1	26.5	27.6	28.1
	6H	23.6	24.6	24.1	25.1	25.6	27.3	28.3	27.9	28.8	29.3
	8H	23.7	24.6	24.2	25.1	25.7	28.0	28.9	28.5	29.4	30.0
	12H	23.8	24.6	24.3	25.1	25.7	28.8	29.6	29.3	30.1	30.7

8H	4H	23.8	24.7	24.3	25.2	25.7	26.2	27.1	26.7	27.6	28.2
	6H	24.3	25.0	24.8	25.6	26.2	27.7	28.4	28.2	29.0	29.5
	8H	24.5	25.1	25.0	25.7	26.3	28.5	29.2	29.0	29.7	30.3
	12H	24.6	25.2	25.1	25.7	26.4	29.4	30.0	29.9	30.5	31.2

12H	4H	23.9	24.7	24.5	25.3	25.8	26.2	27.0	26.8	27.6	28.1
	6H	24.5	25.2	25.1	25.7	26.4	27.7	28.4	28.3	28.9	29.6
	8H	24.8	25.4	25.3	25.9	26.6	28.6	29.2	29.1	29.7	30.4

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 519.013 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.)