



IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L3-940-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-L3-940-RD-DIM-UNV
[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	536
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	5.5
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	6546	5303	5077
55	6149	4735	4579
65	5430	4059	4075
75	4471	3328	3627
85	2255	2738	3266

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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	168.656	168.656	168.656	168.656	168.656
5	169.208	168.380	167.276	167.000	167.276
10	166.724	165.896	164.792	164.792	165.344
15	163.136	162.307	161.203	161.479	161.479
20	157.615	156.787	155.407	156.511	156.787
25	150.714	149.886	149.610	150.438	150.990
30	142.157	142.157	142.157	143.261	142.985
35	133.048	133.048	133.048	134.152	134.980
40	122.007	122.283	122.559	124.491	125.595
45	110.137	110.965	111.793	114.002	114.830
50	97.164	97.992	99.924	103.236	104.893
55	84.742	85.018	88.607	91.367	93.851
60	70.388	71.769	76.737	81.982	83.638
65	56.035	58.243	64.040	69.836	72.321
70	42.785	44.993	52.170	59.347	61.555
75	29.259	33.124	41.129	49.134	52.446
80	17.114	21.255	32.020	40.025	43.613
85	5.797	13.526	23.463	31.468	35.056
90	0.000	7.453	17.390	24.567	27.327
95	0.000	3.864	11.869	19.046	21.531
100	0.000	1.932	8.281	14.078	16.562
105	0.000	1.104	5.797	10.213	12.421
110	0.000	0.828	3.864	7.453	8.833
115	0.000	0.552	2.484	5.245	6.625
120	0.000	0.000	1.380	3.312	4.140
125	0.000	0.000	1.104	2.208	2.760
130	0.000	0.000	0.000	1.380	1.656
135	0.000	0.000	0.000	0.000	1.104
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	61.58	N.A.	11.50
0-30	130.79	N.A.	24.40
0-40	214.30	N.A.	40.00
0-60	380.30	N.A.	71.00
0-80	487.62	N.A.	91.00
0-90	512.46	N.A.	95.70
10-90	496.53	N.A.	92.70
20-40	152.72	N.A.	28.50
20-50	239.35	N.A.	44.70
40-70	229.69	N.A.	42.90
60-80	107.33	N.A.	20.00
70-80	43.63	N.A.	8.10
80-90	24.84	N.A.	4.60
90-110	19.09	N.A.	3.60
90-120	21.98	N.A.	4.10
90-130	23.02	N.A.	4.30
90-150	23.19	N.A.	4.30
90-180	23.19	N.A.	4.30
110-180	4.10	N.A.	0.80
0-180	535.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	15.94
10-20	45.64
20-30	69.21
30-40	83.51
40-50	86.63
50-60	79.36
60-70	63.70
70-80	43.63
80-90	24.84
90-100	12.74
100-110	6.35
110-120	2.90
120-130	1.04
130-140	0.16
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	88	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	74	67	60	71	64	59	67	62	57	64	60	55	53
4	80	68	58	51	77	66	57	51	63	55	50	60	54	48	57	52	47	45
5	73	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	37	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	26	37	31	26	36	30	26	24
10	51	38	30	24	50	37	29	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	16.3	17.9	16.7	18.3	18.7	17.9	19.5	18.4	19.9	20.3
	3H	17.8	19.2	18.2	19.6	20.1	20.2	21.7	20.7	22.1	22.5
	4H	18.2	19.6	18.7	20.0	20.5	21.3	22.7	21.8	23.1	23.6
	6H	18.5	19.8	19.0	20.2	20.7	22.5	23.7	22.9	24.2	24.7
	8H	18.6	19.8	19.1	20.3	20.8	23.0	24.3	23.5	24.7	25.2
	12H	18.6	19.8	19.1	20.2	20.8	23.7	24.8	24.2	25.3	25.8

UGR Viewed Endwise

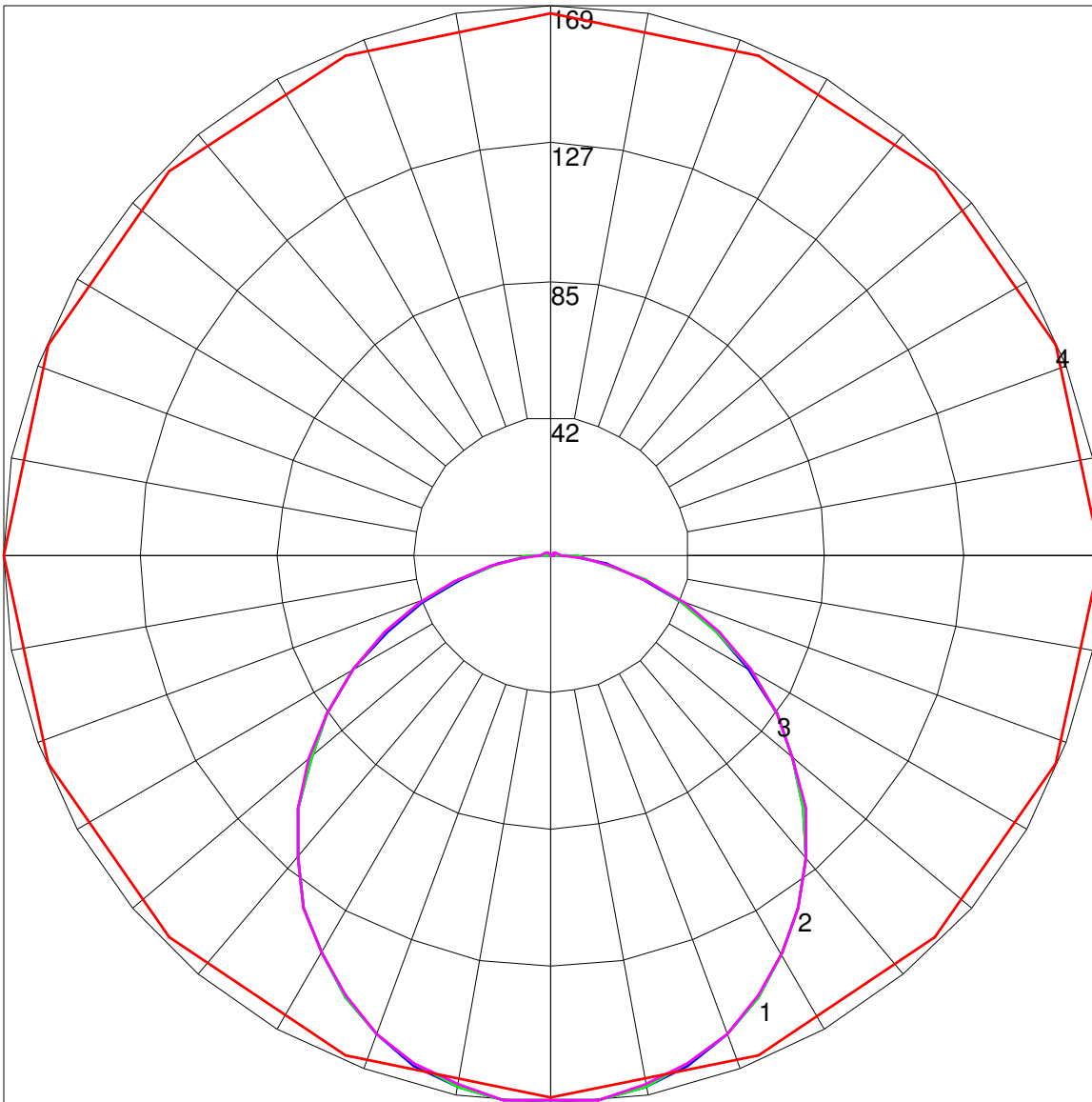
4H	2H	17.1	18.4	17.5	18.9	19.3	18.4	19.7	18.8	20.2	20.6
	3H	18.7	19.9	19.2	20.4	20.9	20.9	22.0	21.3	22.5	23.0
	4H	19.3	20.4	19.8	20.9	21.4	22.1	23.2	22.6	23.7	24.2
	6H	19.7	20.7	20.2	21.2	21.7	23.4	24.4	23.9	24.9	25.4
	8H	19.8	20.7	20.3	21.2	21.8	24.1	25.0	24.6	25.5	26.1
	12H	19.9	20.7	20.4	21.2	21.8	24.8	25.6	25.4	26.2	26.8

8H	4H	19.9	20.7	20.4	21.3	21.8	22.3	23.2	22.8	23.7	24.3
	6H	20.4	21.1	20.9	21.7	22.3	23.8	24.5	24.3	25.1	25.6
	8H	20.6	21.2	21.1	21.8	22.4	24.6	25.2	25.1	25.8	26.4
	12H	20.7	21.3	21.2	21.8	22.5	25.5	26.1	26.0	26.6	27.3

12H	4H	20.0	20.8	20.6	21.4	21.9	22.3	23.1	22.9	23.7	24.2
	6H	20.6	21.3	21.2	21.8	22.5	23.8	24.5	24.4	25.0	25.6
	8H	20.9	21.5	21.4	22.0	22.7	24.7	25.3	25.2	25.8	26.5

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 169.208 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.)