



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SL-2-L5-940-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-L5-940-RD-DIM-UNV

[LAMPCAT] 22 INCH LED ARRAY

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	869
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	9.4
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	10623	8605	8238
55	9978	7684	7431
65	8811	6587	6613
75	7255	5400	5886
85	3660	4444	5300

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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	273.694	273.694	273.694	273.694	273.694
5	274.590	273.246	271.454	271.006	271.454
10	270.558	269.215	267.423	267.423	268.319
15	264.735	263.391	261.600	262.047	262.047
20	255.776	254.432	252.193	253.984	254.432
25	244.578	243.234	242.786	244.130	245.026
30	230.691	230.691	230.691	232.483	232.035
35	215.909	215.909	215.909	217.701	219.045
40	197.991	198.439	198.887	202.023	203.815
45	178.730	180.074	181.417	185.001	186.345
50	157.676	159.020	162.156	167.531	170.219
55	137.519	137.967	143.790	148.270	152.301
60	114.226	116.466	124.529	133.039	135.727
65	90.933	94.516	103.923	113.330	117.361
70	69.431	73.015	84.661	96.308	99.892
75	47.482	53.753	66.744	79.734	85.109
80	27.773	34.492	51.962	64.952	70.775
85	9.407	21.949	38.075	51.066	56.889
90	0.000	12.094	28.220	39.867	44.346
95	0.000	6.271	19.262	30.908	34.940
100	0.000	3.136	13.438	22.845	26.877
105	0.000	1.792	9.407	16.574	20.157
110	0.000	1.344	6.271	12.094	14.334
115	0.000	0.896	4.031	8.511	10.751
120	0.000	0.000	2.240	5.375	6.719
125	0.000	0.000	1.792	3.584	4.479
130	0.000	0.000	0.000	2.240	2.688
135	0.000	0.000	0.000	0.000	1.792
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	99.93	N.A.	11.50
0-30	212.24	N.A.	24.40
0-40	347.77	N.A.	40.00
0-60	617.14	N.A.	71.00
0-80	791.31	N.A.	91.00
0-90	831.62	N.A.	95.70
10-90	805.76	N.A.	92.70
20-40	247.83	N.A.	28.50
20-50	388.42	N.A.	44.70
40-70	372.75	N.A.	42.90
60-80	174.17	N.A.	20.00
70-80	70.80	N.A.	8.10
80-90	40.31	N.A.	4.60
90-110	30.97	N.A.	3.60
90-120	35.68	N.A.	4.10
90-130	37.36	N.A.	4.30
90-150	37.63	N.A.	4.30
90-180	37.63	N.A.	4.30
110-180	6.65	N.A.	0.80
0-180	869.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.86
10-20	74.07
20-30	112.31
30-40	135.52
40-50	140.59
50-60	128.79
60-70	103.37
70-80	70.80
80-90	40.31
90-100	20.68
100-110	10.30
110-120	4.70
120-130	1.68
130-140	0.27
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

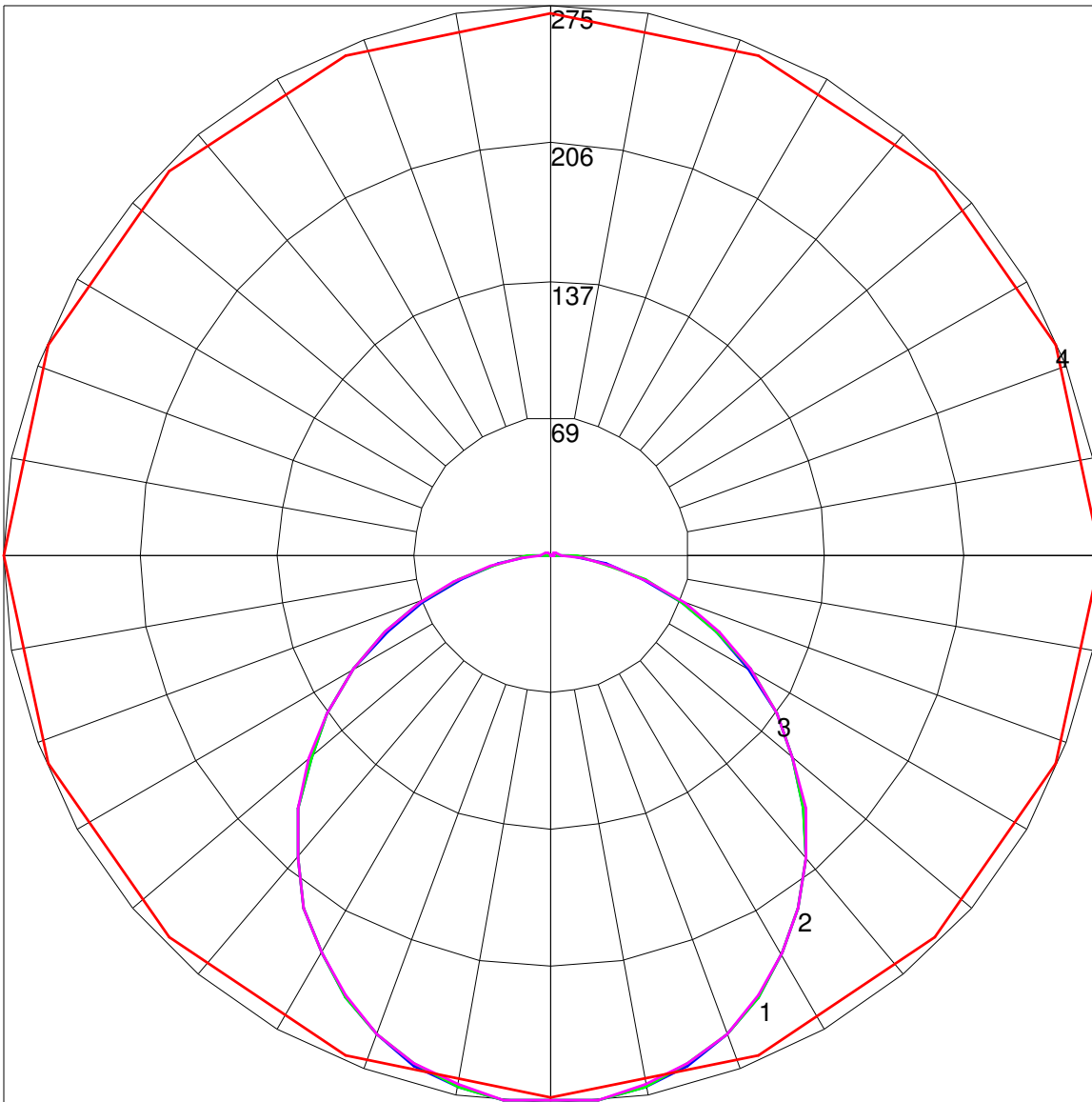
Reflectances

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	18.0	19.6	18.4	20.0	20.4	19.7	21.2	20.1	21.6	22.1
	3H	19.5	20.9	19.9	21.3	21.8	21.9	23.4	22.4	23.8	24.3
	4H	19.9	21.3	20.4	21.7	22.2	23.0	24.4	23.5	24.8	25.3
	6H	20.2	21.5	20.7	22.0	22.4	24.2	25.4	24.6	25.9	26.4
	8H	20.3	21.5	20.8	22.0	22.5	24.8	26.0	25.2	26.4	26.9
	12H	20.3	21.5	20.8	21.9	22.5	25.4	26.5	25.9	27.0	27.5
4H	2H	18.8	20.1	19.2	20.6	21.0	20.1	21.4	20.5	21.9	22.3
	3H	20.5	21.6	20.9	22.1	22.6	22.6	23.7	23.1	24.2	24.7
	4H	21.0	22.1	21.5	22.6	23.1	23.8	24.9	24.3	25.4	25.9
	6H	21.4	22.4	21.9	22.9	23.4	25.1	26.1	25.7	26.6	27.1
	8H	21.5	22.4	22.0	22.9	23.5	25.8	26.7	26.3	27.2	27.8
	12H	21.6	22.4	22.1	22.9	23.5	26.6	27.4	27.1	27.9	28.5
8H	4H	21.6	22.5	22.1	23.0	23.5	24.0	24.9	24.5	25.4	26.0
	6H	22.1	22.8	22.6	23.4	24.0	25.5	26.2	26.0	26.8	27.3
	8H	22.3	22.9	22.8	23.5	24.1	26.3	27.0	26.8	27.5	28.1
	12H	22.4	23.0	22.9	23.5	24.2	27.2	27.8	27.7	28.3	29.0
12H	4H	21.7	22.5	22.3	23.1	23.6	24.0	24.8	24.6	25.4	25.9
	6H	22.3	23.0	22.9	23.5	24.2	25.5	26.2	26.1	26.7	27.4
	8H	22.6	23.2	23.1	23.7	24.4	26.4	27.0	26.9	27.5	28.2

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 274.59 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.)