IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-6-L5-840-RD-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] BALLABS TEST NO. 21002.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2023-04-25
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] SL LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] 1.375 WIDE ALUM CHANNEL w/1"WIDE WHITE RADIAL ACRYLIC LENS
[LUMCAT] SL-6-L5-840-RD-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR, COVE, CLASSROOM
[_SEARCH_MOUNTING] SURFACE, WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3077
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	26.5
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)	6.00 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	12729	10242	9720
55	12034	9169	8768
65	10740	7889	7803
75	9047	6502	6945
85	5028	5405	6253

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	968.799	968.799	968.799	968.799	968.799
5	971.970	967.213	960.871	959.285	960.871
10	957.699	952.943	946.600	946.600	949.771
15	937.087	932.330	925.987	927.573	927.573
20	905.375	900.618	892.690	899.032	900.618
25	865.735	860.978	859.392	864.149	867.320
30	816.581	816.581	816.581	822.924	821.338
35	764.257	764.257	764.257	770.599	775.356
40	700.833	702.419	704.004	715.103	721.446
45	632.652	637.409	642.166	654.851	659.608
50	558.129	562.886	573.985	593.013	602.526
55	486.778	488.363	508.976	524.832	539.102
60	404.327	412.255	440.795	470.922	480.435
65	321.876	334.561	367.858	401.156	415.426
70	245.767	258.452	299.677	340.903	353.588
75	168.073	190.271	236.254	282.236	301.263
80	98.307	122.091	183.929	229.911	250.524
85	33.297	77.694	134.776	180.758	201.371
90	0.000	42.811	99.892	141.118	156.974
95	0.000	22.198	68.181	109.406	123.676
100	0.000	11.099	47.568	80.865	95.136
105	0.000	6.342	33.297	58.667	71.352
110	0.000	4.757	22.198	42.811	50.739
115	0.000	3.171	14.270	30.126	38.054
120	0.000	0.000	7.928	19.027	23.784
125	0.000	0.000	6.342	12.685	15.856
130	0.000	0.000	0.000	7.928	9.514
135	0.000	0.000	0.000	0.000	6.342
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	353.73	N.A.	11.50
0-30	751.28	N.A.	24.40
0-40	1230.99	N.A.	40.00
0-60	2184.51	N.A.	71.00
0-80	2801.01	N.A.	91.00
0-90	2943.7	N.A.	95.70
10-90	2852.15	N.A.	92.70
20-40	877.26	N.A.	28.50
20-50	1374.9	N.A.	44.70
40-70	1319.42	N.A.	42.90
60-80	616.51	N.A.	20.00
70-80	250.61	N.A.	8.10
80-90	142.69	N.A.	4.60
90-110	109.64	N.A.	3.60
90-120	126.29	N.A.	4.10
90-130	132.24	N.A.	4.30
90-150	133.19	N.A.	4.30
90-180	133.19	N.A.	4.30
110-180	23.55	N.A.	0.80
0-180	3076.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	91.55
10-20	262.18
20-30	397.56
30-40	479.71
40-50	497.64
50-60	455.88
60-70	365.90
70-80	250.61
80-90	142.69
90-100	73.19
100-110	36.45
110-120	16.65
120-130	5.96
130-140	0.95
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					UGR Viewed Endwise				
X=2H	Y=2H	18.6	20.2	19.0	20.6	21.0	20.3	21.9	20.7	22.3	22.7
	3H	20.1	21.5	20.5	21.9	22.4	22.6	24.1	23.0	24.5	24.9
	4H	20.5	21.9	21.0	22.3	22.8	23.7	25.1	24.2	25.5	26.0
	6H	20.8	22.1	21.3	22.5	23.0	24.9	26.2	25.4	26.6	27.1
	8H	20.9	22.1	21.4	22.6	23.1	25.5	26.7	26.0	27.2	27.7
	12H	20.9	22.1	21.4	22.5	23.1	26.2	27.3	26.6	27.8	28.3
4H	2H	19.4	20.7	19.8	21.2	21.6	20.7	22.1	21.2	22.5	23.0
	3H	21.1	22.2	21.5	22.7	23.2	23.2	24.4	23.7	24.9	25.4
	4H	21.6	22.7	22.1	23.2	23.7	24.5	25.6	25.0	26.1	26.6
	6H	22.0	23.0	22.5	23.5	24.0	25.9	26.8	26.4	27.3	27.9
	8H	22.1	23.0	22.6	23.5	24.1	26.6	27.4	27.1	27.9	28.5
	12H	22.2	23.0	22.7	23.5	24.1	27.3	28.1	27.9	28.7	29.2
8H	4H	22.2	23.1	22.7	23.6	24.1	24.7	25.6	25.2	26.1	26.7
	6H	22.7	23.5	23.3	24.0	24.6	26.2	26.9	26.7	27.5	28.1
	8H	22.9	23.6	23.4	24.1	24.7	27.0	27.7	27.6	28.3	28.8
	12H	23.0	23.6	23.6	24.1	24.8	28.0	28.6	28.5	29.1	29.8
12H	4H	22.3	23.1	22.9	23.7	24.2	24.7	25.5	25.3	26.1	26.6
	6H	22.9	23.6	23.5	24.2	24.8	26.2	26.9	26.8	27.4	28.1
	8H	23.2	23.8	23.8	24.3	25.0	27.1	27.7	27.7	28.3	28.9

Maximum UGR = 29.8

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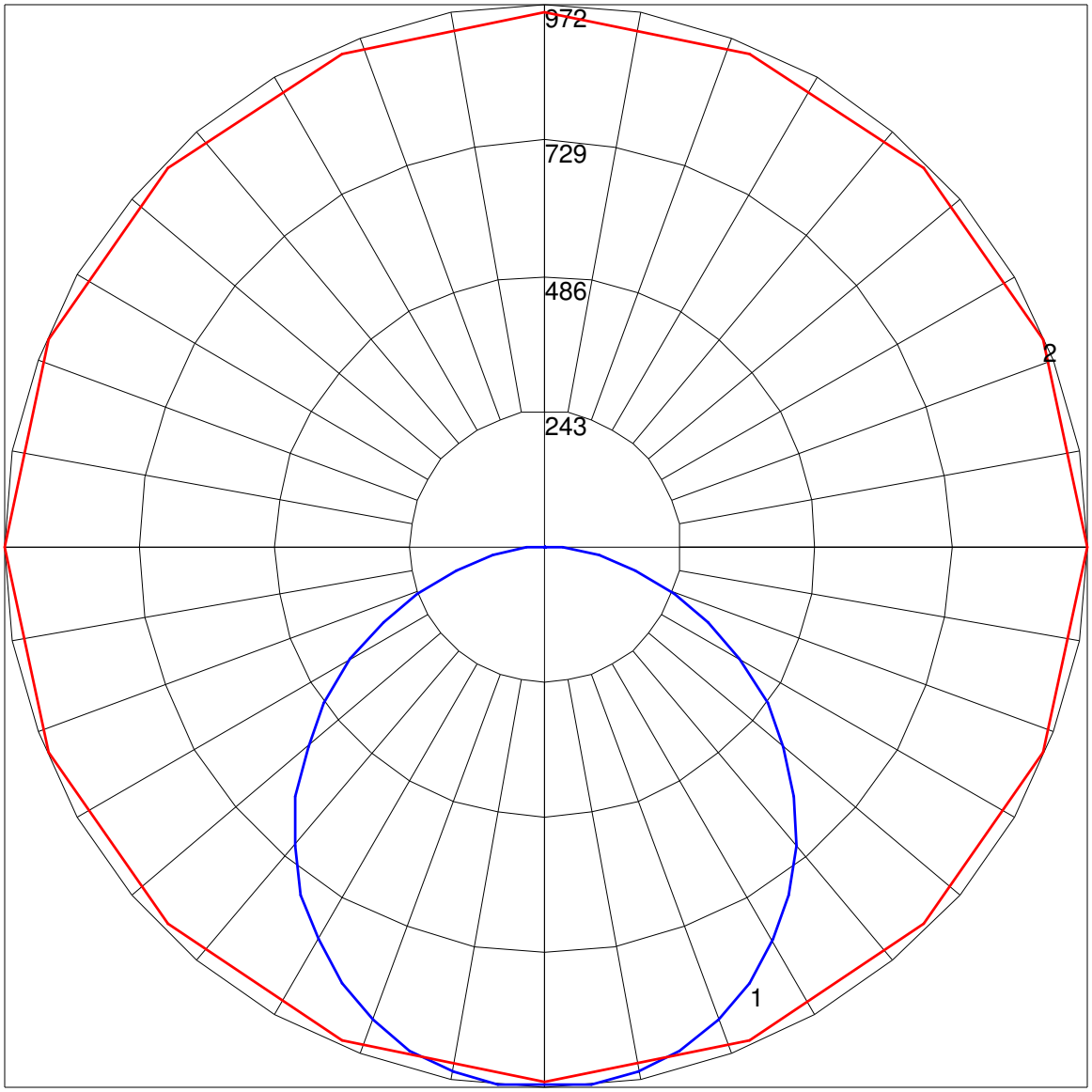
POLAR GRAPH



Maximum Candela = 971.97 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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