H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SL-2-L10-835-RD-XX-(L6)-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] 02-16-2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
[LUMINAIRE] 2' LED SLIMLINE ARCHITECTURAL LUMINAIRE
[MORE] WITH FROSTED ACRYLIC LENS
[LUMCAT] SL-2-L10-835-RD-xx-(L6)-DIM-UNV
[LAMPCAT] HLM 80 CRI, 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Direct
[_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	11.1
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	14234	11530	11039
55	13370	10295	9957
65	11806	8826	8861
75	9721	7235	7886
85	4904	5954	7101

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	366.726	366.726	366.726	366.726	366.726
5	367.926	366.126	363.725	363.125	363.725
10	362.524	360.724	358.323	358.323	359.523
15	354.722	352.921	350.520	351.121	351.121
20	342.718	340.917	337.916	340.317	340.917
25	327.713	325.912	325.312	327.112	328.313
30	309.106	309.106	309.106	311.507	310.907
35	289.299	289.299	289.299	291.700	293.501
40	265.291	265.891	266.491	270.693	273.094
45	239.482	241.283	243.083	247.885	249.686
50	211.273	213.073	217.275	224.477	228.078
55	184.263	184.863	192.666	198.668	204.070
60	153.053	156.054	166.857	178.261	181.862
65	121.842	126.643	139.248	151.852	157.254
70	93.032	97.834	113.439	129.044	133.846
75	63.622	72.025	89.431	106.837	114.039
80	37.213	46.216	69.624	87.030	94.833
85	12.604	29.410	51.018	68.423	76.226
90	0.000	16.206	37.813	53.418	59.420
95	0.000	8.403	25.809	41.414	46.816
100	0.000	4.201	18.006	30.611	36.012
105	0.000	2.401	12.604	22.208	27.009
110	0.000	1.801	8.403	16.206	19.207
115	0.000	1.200	5.402	11.404	14.405
120	0.000	0.000	3.001	7.202	9.003
125	0.000	0.000	2.401	4.802	6.002
130	0.000	0.000	0.000	3.001	3.601
135	0.000	0.000	0.000	0.000	2.401
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	133.90	N.A.	11.50
0-30	284.39	N.A.	24.40
0-40	465.97	N.A.	40.00
0-60	826.92	N.A.	71.00
0-80	1060.29	N.A.	91.00
0-90	1114.3	N.A.	95.70
10-90	1079.64	N.A.	92.70
20-40	332.08	N.A.	28.50
20-50	520.45	N.A.	44.70
40-70	499.45	N.A.	42.90
60-80	233.37	N.A.	20.00
70-80	94.86	N.A.	8.10
80-90	54.01	N.A.	4.60
90-110	41.50	N.A.	3.60
90-120	47.80	N.A.	4.10
90-130	50.06	N.A.	4.30
90-150	50.42	N.A.	4.30
90-180	50.42	N.A.	4.30
110-180	8.92	N.A.	0.80
0-180	1164.72	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	34.65
10-20	99.24
20-30	150.49
30-40	181.59
40-50	188.37
50-60	172.57
60-70	138.51
70-80	94.86
80-90	54.01
90-100	27.71
100-110	13.80
110-120	6.30
120-130	2.26
130-140	0.36
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	75	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	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	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					UGR Viewed Endwise				
X=2H	Y=2H	19.0	20.6	19.4	21.0	21.4	20.7	22.2	21.1	22.6	23.0
	3H	20.5	21.9	20.9	22.3	22.8	22.9	24.4	23.4	24.8	25.2
	4H	20.9	22.3	21.4	22.7	23.2	24.0	25.4	24.5	25.8	26.3
	6H	21.2	22.5	21.7	22.9	23.4	25.2	26.4	25.6	26.9	27.4
	8H	21.3	22.5	21.8	23.0	23.5	25.7	27.0	26.2	27.4	27.9
	12H	21.3	22.5	21.8	22.9	23.5	26.4	27.5	26.9	28.0	28.5
4H	2H	19.8	21.1	20.2	21.6	22.0	21.1	22.4	21.5	22.9	23.3
	3H	21.4	22.6	21.9	23.1	23.6	23.6	24.7	24.1	25.2	25.7
	4H	22.0	23.1	22.5	23.6	24.1	24.8	25.9	25.3	26.4	26.9
	6H	22.4	23.4	22.9	23.9	24.4	26.1	27.1	26.7	27.6	28.1
	8H	22.5	23.4	23.0	23.9	24.5	26.8	27.7	27.3	28.2	28.8
	12H	22.6	23.4	23.1	23.9	24.5	27.6	28.3	28.1	28.9	29.5
8H	4H	22.6	23.5	23.1	24.0	24.5	25.0	25.9	25.5	26.4	27.0
	6H	23.1	23.8	23.6	24.4	25.0	26.5	27.2	27.0	27.8	28.3
	8H	23.3	23.9	23.8	24.5	25.1	27.3	27.9	27.8	28.5	29.1
	12H	23.4	24.0	23.9	24.5	25.2	28.2	28.8	28.7	29.3	30.0
12H	4H	22.7	23.5	23.3	24.1	24.6	25.0	25.8	25.6	26.4	26.9
	6H	23.3	24.0	23.9	24.5	25.2	26.5	27.2	27.1	27.7	28.3
	8H	23.6	24.2	24.1	24.7	25.4	27.4	28.0	27.9	28.5	29.2

Maximum UGR = 30.0

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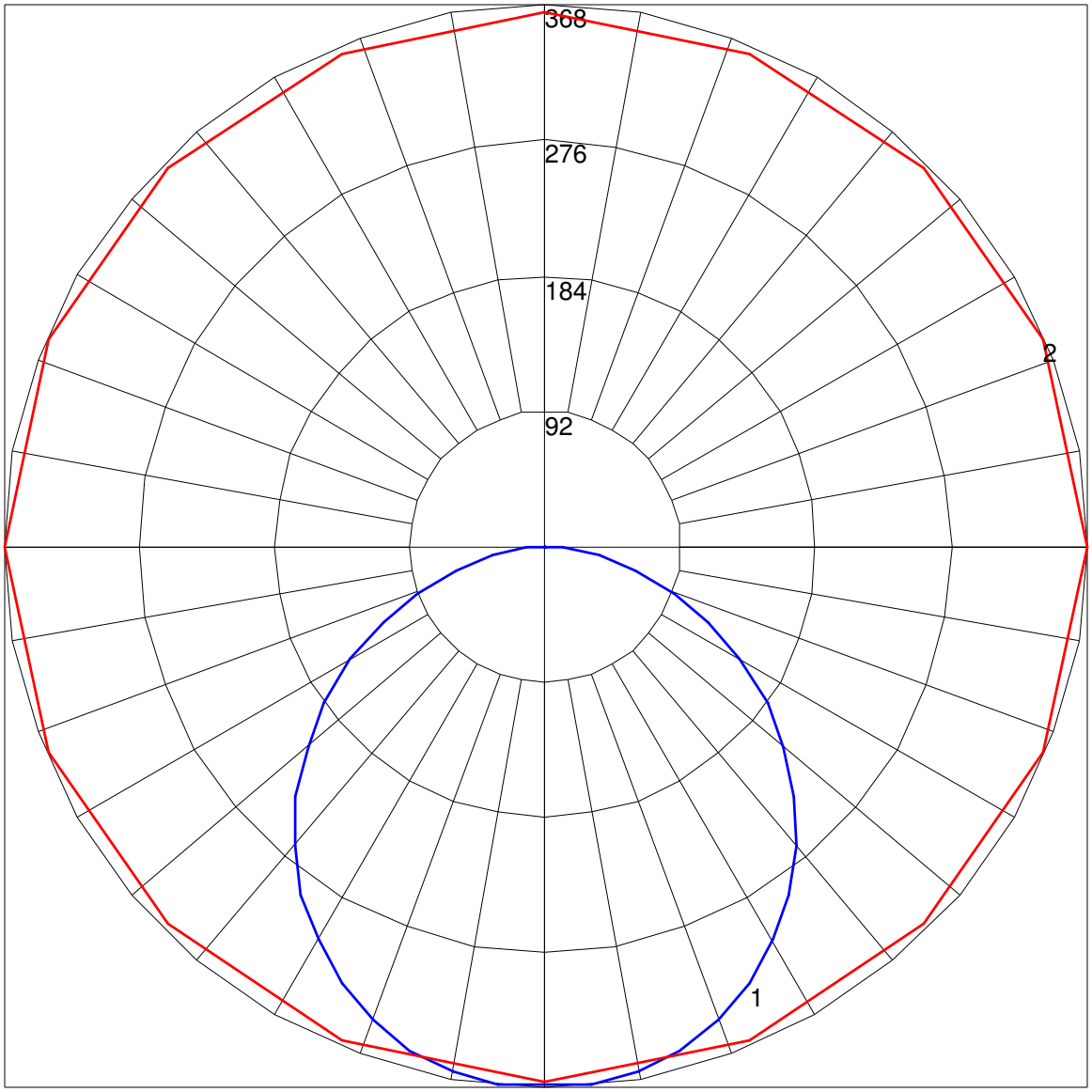
POLAR GRAPH



Maximum Candela = 367.926 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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