



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L30-835-A-(L27)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 19087.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 07-02-2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' SURFACE MOUNT LED LUMINAIRE

[MORE] WITH FROSTED ACRYLIC RIBBED LENS

[LUMCAT] 39W-4-L30-835-A-(L27)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, ARCHETECTURAL, COMMERCIAL, DIRECT, LINEAR

[_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2736
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	21.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.01 ft
Luminous Width (90-270)	0.79 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2712	2454	2424
55	2263	2017	2027
65	1872	1651	1761
75	1365	1309	1519
85	805	1090	1415

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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	1045.729	1045.729	1045.729	1045.729	1045.729
5	1051.536	1051.008	1050.480	1050.480	1051.008
10	1028.309	1027.782	1027.782	1028.309	1029.365
15	991.886	992.942	994.525	995.581	996.637
20	961.797	962.325	965.492	966.020	966.020
25	881.031	883.143	885.782	887.366	887.366
30	813.990	816.630	820.325	822.436	822.964
35	757.507	761.730	767.537	770.176	771.760
40	664.600	669.879	677.797	682.548	684.660
45	590.697	598.088	608.645	616.035	618.675
50	493.567	500.958	515.210	526.296	530.519
55	406.995	415.969	433.389	446.586	452.393
60	324.646	334.148	352.624	372.155	380.073
65	255.494	265.523	289.278	316.200	324.646
70	185.814	197.955	229.100	258.133	269.746
75	121.412	136.193	170.505	201.650	212.735
80	71.264	90.267	127.747	159.420	170.505
85	31.145	51.732	88.684	118.773	129.331
90	0.000	22.699	52.788	77.070	86.572
95	0.000	9.502	33.784	55.427	63.873
100	0.000	0.000	20.587	37.479	43.286
105	0.000	0.000	13.197	24.810	30.089
110	0.000	0.000	0.000	16.892	20.587
115	0.000	0.000	0.000	12.669	15.309
120	0.000	0.000	0.000	10.558	11.613
125	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000
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	380.84	N.A.	13.90
0-30	790.54	N.A.	28.90
0-40	1264.64	N.A.	46.20
0-60	2115.38	N.A.	77.30
0-80	2585.31	N.A.	94.50
0-90	2678.86	N.A.	97.90
10-90	2579.43	N.A.	94.30
20-40	883.80	N.A.	32.30
20-50	1347.78	N.A.	49.30
40-70	1138.36	N.A.	41.60
60-80	469.94	N.A.	17.20
70-80	182.31	N.A.	6.70
80-90	93.55	N.A.	3.40
90-110	50.76	N.A.	1.90
90-120	56.00	N.A.	2.00
90-130	56.95	N.A.	2.10
90-150	56.95	N.A.	2.10
90-180	56.95	N.A.	2.10
110-180	6.18	N.A.	0.20
0-180	2735.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	99.44
10-20	281.40
20-30	409.70
30-40	474.10
40-50	463.98
50-60	386.76
60-70	287.63
70-80	182.31
80-90	93.55
90-100	36.64
100-110	14.12
110-120	5.24
120-130	0.95
130-140	0.00
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	86	83	81
2	98	90	83	77	95	88	82	76	84	79	74	80	76	72	77	74	70	68
3	90	79	71	65	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	71	62	55	80	69	61	55	66	59	54	64	58	53	61	56	52	50
5	76	63	54	48	74	62	54	48	60	52	47	58	51	46	55	50	45	43
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	46	40	36	34
8	61	48	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	36	30	55	43	35	30	42	35	30	41	34	30	39	34	29	27
10	53	40	33	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

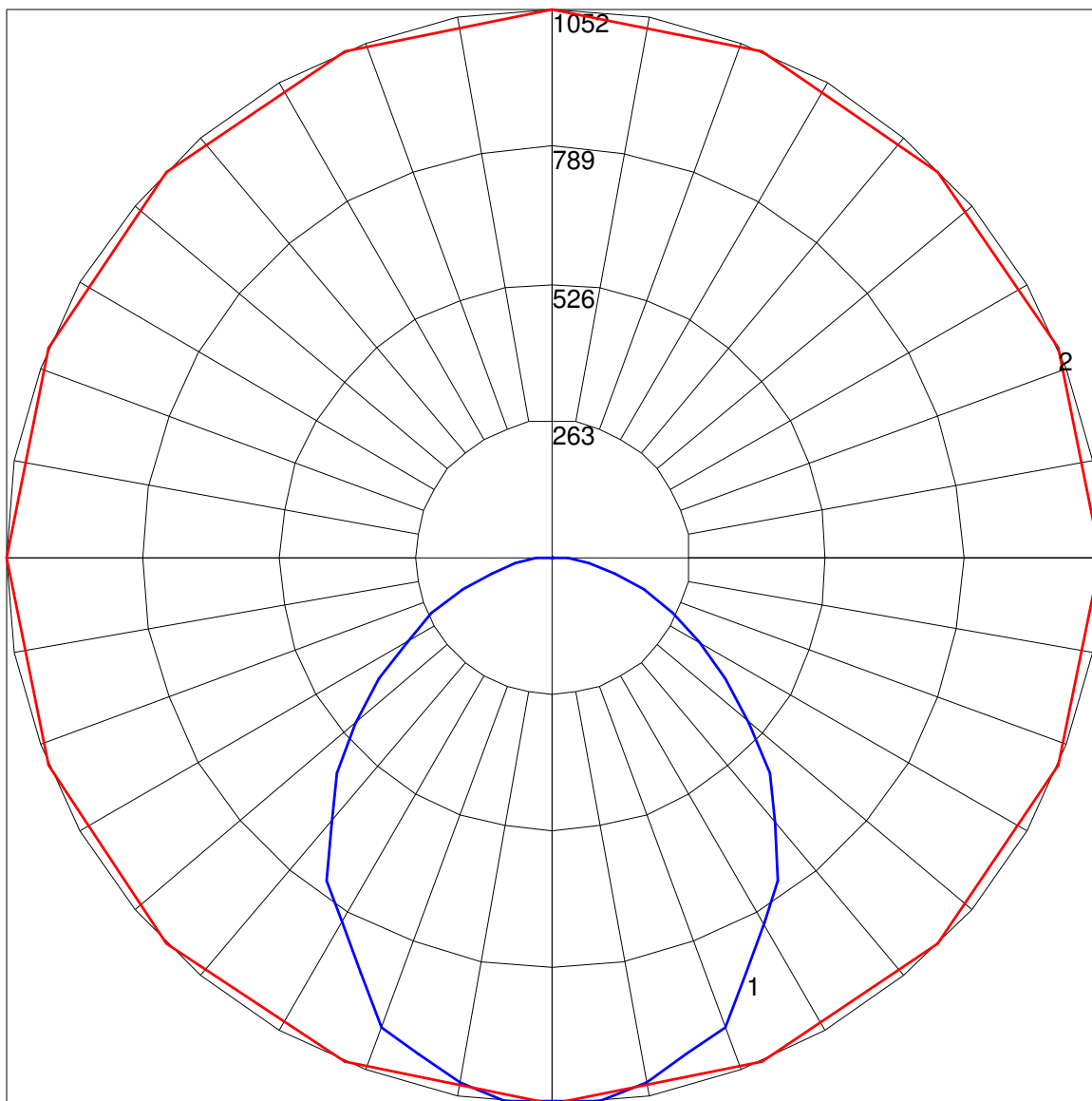
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UGR TABLE - CORRECTED

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	13.4	14.9	13.8	15.3	15.7	14.5	16.1	14.9	16.5	16.8
	3H	14.7	16.2	15.1	16.5	16.9	16.6	18.0	17.0	18.4	18.8
	4H	15.1	16.5	15.6	16.9	17.3	17.5	18.8	17.9	19.2	19.6
	6H	15.4	16.7	15.8	17.1	17.5	18.4	19.6	18.8	20.0	20.4
	8H	15.5	16.7	15.9	17.1	17.5	18.8	20.0	19.3	20.4	20.9
	12H	15.5	16.6	16.0	17.1	17.5	19.2	20.4	19.7	20.8	21.3
4H	2H	14.0	15.4	14.5	15.8	16.2	15.0	16.3	15.4	16.7	17.1
	3H	15.6	16.7	16.1	17.2	17.6	17.2	18.4	17.7	18.8	19.2
	4H	16.1	17.2	16.6	17.6	18.1	18.3	19.3	18.7	19.8	20.2
	6H	16.5	17.4	17.0	17.9	18.4	19.4	20.2	19.8	20.7	21.2
	8H	16.6	17.4	17.1	17.9	18.4	19.9	20.7	20.4	21.2	21.7
	12H	16.7	17.4	17.2	17.9	18.5	20.4	21.2	21.0	21.7	22.2
8H	4H	16.6	17.4	17.1	17.9	18.4	18.5	19.3	19.0	19.8	20.3
	6H	17.1	17.8	17.6	18.3	18.8	19.7	20.4	20.2	20.9	21.5
	8H	17.2	17.9	17.8	18.4	19.0	20.3	21.0	20.9	21.5	22.1
	12H	17.4	17.9	17.9	18.5	19.1	21.1	21.6	21.6	22.2	22.8
12H	4H	16.7	17.4	17.2	18.0	18.5	18.5	19.2	19.0	19.8	20.3
	6H	17.2	17.9	17.8	18.4	19.0	19.7	20.4	20.3	20.9	21.5
	8H	17.5	18.1	18.0	18.6	19.2	20.4	21.0	21.0	21.5	22.1

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 1051.536 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.)