



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 39W-4-L52-835-A-(L37)-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] 02-24-2021

[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-L52-835-A-(L37)-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] SURFACE, SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3698
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	29.3
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	3666	3317	3277
55	3058	2726	2740
65	2530	2231	2380
75	1845	1769	2054
85	1088	1474	1913

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39W-4-L52-835-A-(L37)-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1413.417	1413.417	1413.417	1413.417	1413.417
5	1421.265	1420.551	1419.838	1419.838	1420.551
10	1389.871	1389.158	1389.158	1389.871	1391.298
15	1340.641	1342.068	1344.208	1345.635	1347.062
20	1299.972	1300.686	1304.967	1305.680	1305.680
25	1190.809	1193.663	1197.230	1199.371	1199.371
30	1100.196	1103.763	1108.758	1111.612	1112.325
35	1023.853	1029.561	1037.409	1040.977	1043.117
40	898.279	905.414	916.117	922.538	925.392
45	798.391	808.380	822.650	832.639	836.206
50	667.110	677.099	696.363	711.346	717.054
55	550.098	562.227	585.772	603.609	611.458
60	438.794	451.637	476.609	503.008	513.710
65	345.327	358.884	390.991	427.378	438.794
70	251.147	267.557	309.653	348.895	364.592
75	164.102	184.079	230.456	272.552	287.535
80	96.321	122.006	172.664	215.473	230.456
85	42.096	69.922	119.866	160.534	174.804
90	0.000	30.680	71.349	104.169	117.012
95	0.000	12.843	45.663	74.916	86.332
100	0.000	0.000	27.826	50.658	58.506
105	0.000	0.000	17.837	33.534	40.669
110	0.000	0.000	0.000	22.832	27.826
115	0.000	0.000	0.000	17.124	20.691
120	0.000	0.000	0.000	14.270	15.697
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39W-4-L52-835-A-(L37)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	514.74	N.A.	13.90
0-30	1068.5	N.A.	28.90
0-40	1709.3	N.A.	46.20
0-60	2859.16	N.A.	77.30
0-80	3494.33	N.A.	94.50
0-90	3620.78	N.A.	97.90
10-90	3486.38	N.A.	94.30
20-40	1194.55	N.A.	32.30
20-50	1821.68	N.A.	49.30
40-70	1538.62	N.A.	41.60
60-80	635.17	N.A.	17.20
70-80	246.41	N.A.	6.70
80-90	126.44	N.A.	3.40
90-110	68.61	N.A.	1.90
90-120	75.69	N.A.	2.00
90-130	76.97	N.A.	2.10
90-150	76.97	N.A.	2.10
90-180	76.97	N.A.	2.10
110-180	8.36	N.A.	0.20
0-180	3697.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.40
10-20	380.35
20-30	553.76
30-40	640.80
40-50	627.12
50-60	522.74
60-70	388.76
70-80	246.41
80-90	126.44
90-100	49.52
100-110	19.09
110-120	7.08
120-130	1.28
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39W-4-L52-835-A-(L37)-DIM-UNV_.IES

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

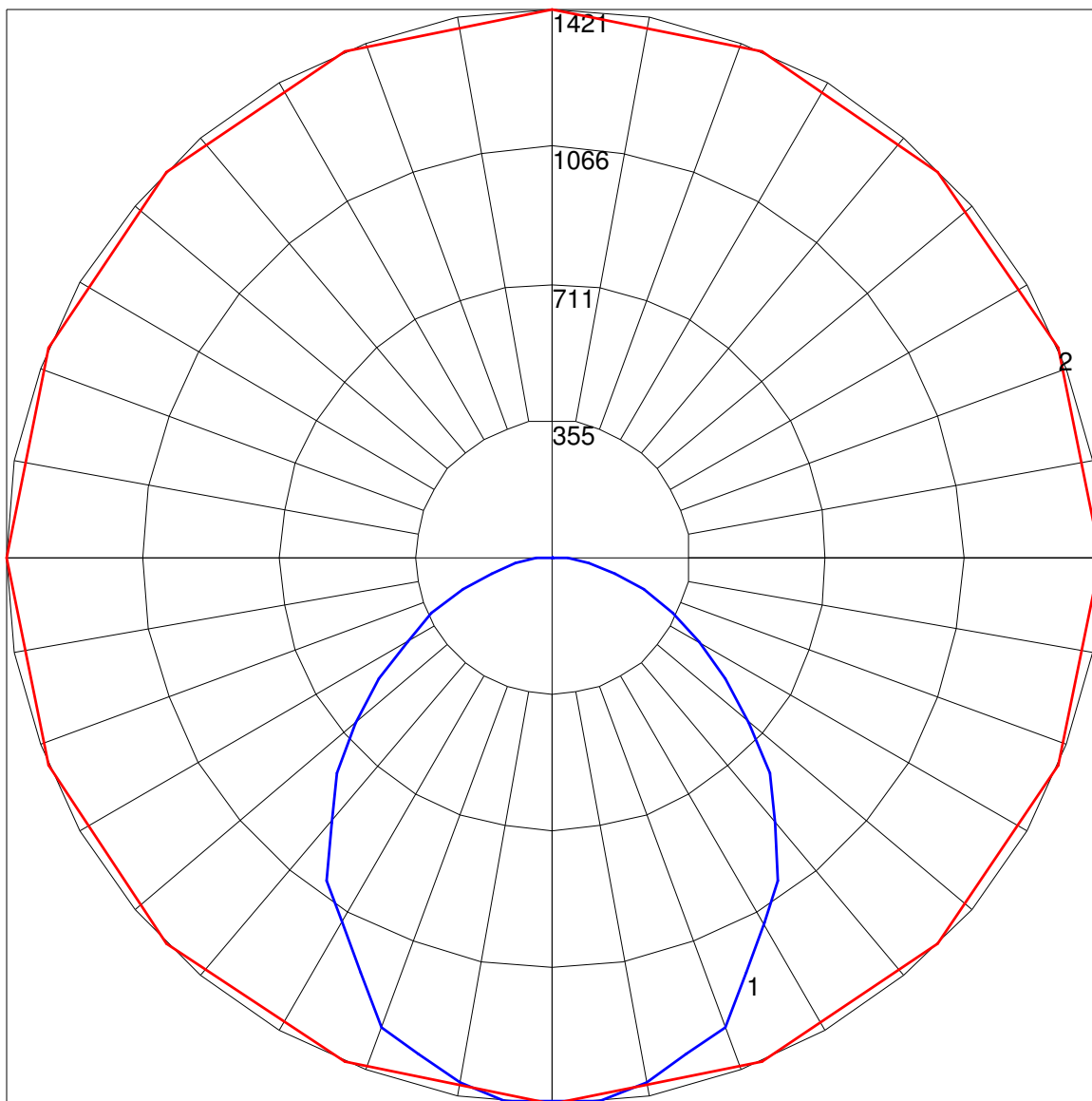
IES INDOOR REPORT
PHOTOMETRIC FILENAME : 39W-4-L52-835-A-(L37)-DIM-UNV_.IES

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	14.4	15.9	14.8	16.3	16.7	15.5	17.1	15.9	17.5	17.8
	3H	15.7	17.2	16.1	17.5	17.9	17.6	19.0	18.0	19.4	19.8
	4H	16.1	17.5	16.6	17.9	18.3	18.5	19.8	18.9	20.2	20.6
	6H	16.4	17.7	16.8	18.1	18.5	19.4	20.6	19.8	21.0	21.5
	8H	16.5	17.7	16.9	18.1	18.5	19.8	21.0	20.3	21.4	21.9
	12H	16.5	17.6	17.0	18.1	18.5	20.2	21.4	20.7	21.8	22.3
4H	2H	15.0	16.4	15.5	16.8	17.2	16.0	17.3	16.4	17.7	18.1
	3H	16.6	17.7	17.1	18.2	18.6	18.2	19.4	18.7	19.8	20.3
	4H	17.1	18.2	17.6	18.6	19.1	19.3	20.3	19.8	20.8	21.2
	6H	17.5	18.4	18.0	18.9	19.4	20.4	21.3	20.8	21.7	22.2
	8H	17.6	18.5	18.1	18.9	19.4	20.9	21.7	21.4	22.2	22.7
	12H	17.7	18.4	18.2	18.9	19.5	21.4	22.2	22.0	22.7	23.2
8H	4H	17.6	18.4	18.1	18.9	19.4	19.5	20.3	20.0	20.8	21.3
	6H	18.1	18.8	18.6	19.3	19.8	20.7	21.4	21.2	21.9	22.5
	8H	18.2	18.9	18.8	19.4	20.0	21.3	22.0	21.9	22.5	23.1
	12H	18.4	18.9	18.9	19.5	20.1	22.1	22.6	22.6	23.2	23.8
12H	4H	17.7	18.4	18.2	19.0	19.5	19.5	20.2	20.0	20.8	21.3
	6H	18.2	18.9	18.8	19.4	20.0	20.7	21.4	21.3	21.9	22.5
	8H	18.5	19.1	19.0	19.6	20.2	21.4	22.0	22.0	22.5	23.1

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 1421.265 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.)