H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 11-4-P33-835-SAF12125-POE X.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 18638.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2-APRIL-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1x4'SURFACE MNT LUMINAIRE w/WHITE REFL
[MORE] ARRAYS ON INTERNAL WHITE REFLS w/PAT12 LENS (PRISMS DOWN)
[LUMCAT] 11-4-P33-835-SAF12125-POE x
[LAMPCAT] HLM 80 CRI 3500K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3344
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.80 ft
Luminous Width (90-270)	0.77 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4234	3998	3805
55	3417	3134	2901
65	2803	2519	2397
75	2343	2197	2288
85	2427	2427	2723

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1548.847	1548.847	1548.847	1548.847	1548.847
5	1538.611	1537.971	1535.412	1535.412	1535.412
10	1511.101	1509.822	1507.903	1507.903	1507.263
15	1438.809	1438.169	1436.250	1434.331	1432.412
20	1407.461	1404.902	1397.225	1394.026	1392.747
25	1277.591	1273.113	1264.156	1257.758	1254.560
30	1170.752	1164.354	1150.280	1138.124	1130.447
35	1064.552	1055.596	1037.043	1018.490	1009.534
40	930.204	918.688	894.378	866.868	861.110
45	815.048	800.973	769.625	738.917	732.520
50	665.345	650.631	619.923	590.494	581.537
55	533.556	518.202	489.413	462.543	452.947
60	415.201	399.847	375.536	353.785	348.667
65	322.437	310.281	289.809	277.654	275.734
70	237.349	228.393	215.597	213.678	215.597
75	165.057	160.579	154.821	158.659	161.218
80	110.678	108.119	107.479	113.237	115.156
85	57.578	56.938	57.578	64.615	64.615
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	554.16	N.A.	16.60
0-30	1139.36	N.A.	34.10
0-40	1783.7	N.A.	53.30
0-60	2815.77	N.A.	84.20
0-80	3281.18	N.A.	98.10
0-90	3343.95	N.A.	100.00
10-90	3198.13	N.A.	95.60
20-40	1229.55	N.A.	36.80
20-50	1819.05	N.A.	54.40
40-70	1325.88	N.A.	39.70
60-80	465.41	N.A.	13.90
70-80	171.59	N.A.	5.10
80-90	62.77	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3343.95	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	145.82
10-20	408.34
20-30	585.20
30-40	644.34
40-50	589.50
50-60	442.56
60-70	293.82
70-80	171.59
80-90	62.77
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
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	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	76	70	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	58	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	55	47	41	53	46	41	52	45	41	50	45	40	38
8	64	51	43	37	62	50	42	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

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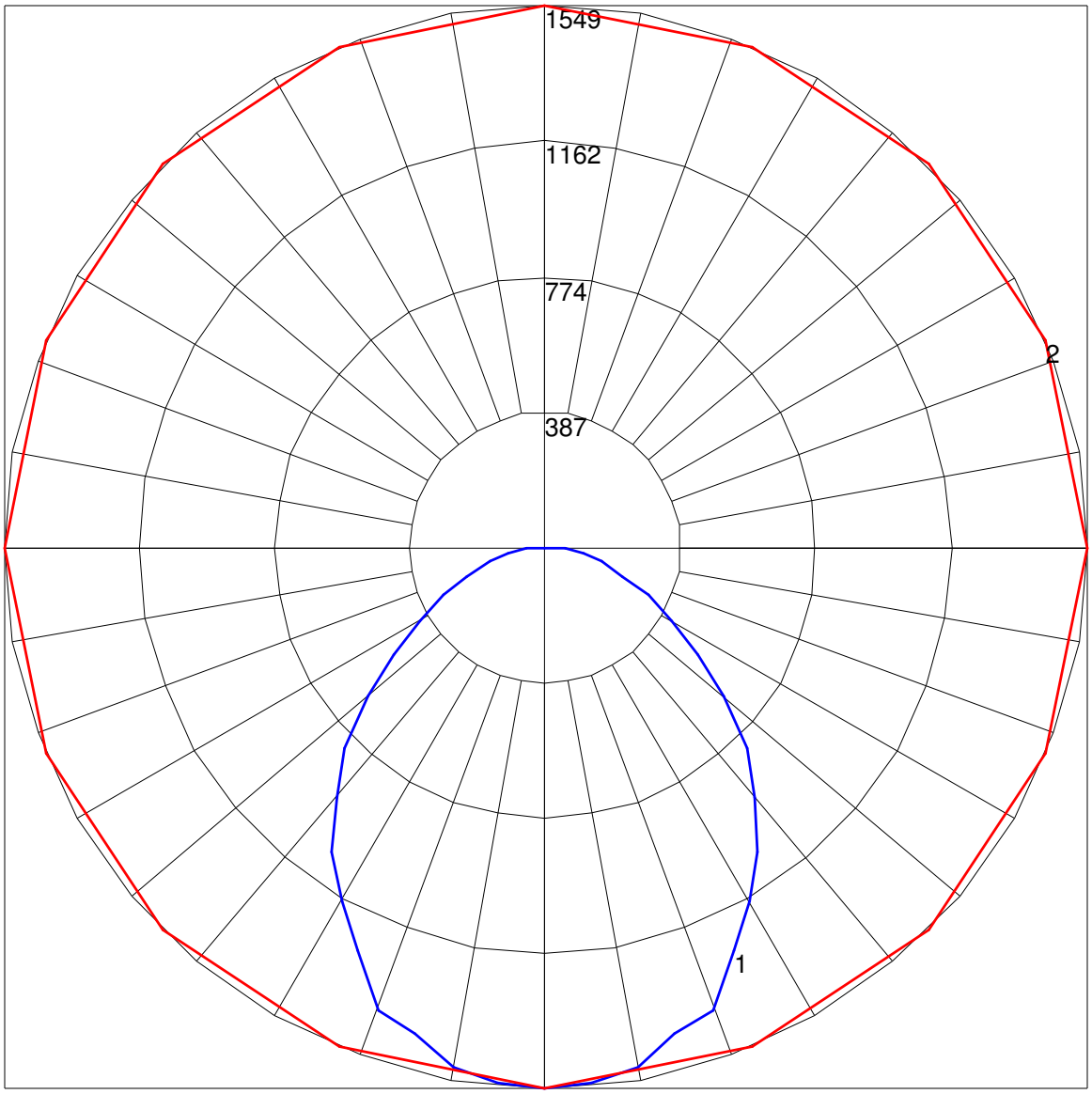
POLAR GRAPH



Maximum Candela = 1548.847 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)