IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-14-P65-835-RA-POEX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 19323.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 28-APR-2016
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-22" LED ARRAYS 1x4'RECESSED LUMINAIRE
[MORE] WHITE REFLECTOR w/WHITE RIBBED ACRYLIC LENS
[LUMCAT] PT-14-P65-835-RA-POEx
[LAMPCAT] HLM
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Architectural, Office, Direct
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.94 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6130	6403	6496
55	5410	5945	6197
65	4708	5580	5725
75	3421	4792	4996
85	1559	2565	3017

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2386.991	2386.991	2386.991	2386.991	2386.991
5	2440.901	2422.931	2413.946	2391.484	2378.006
10	2398.971	2385.494	2381.001	2357.041	2345.062
15	2333.082	2321.102	2327.092	2298.640	2298.640
20	2238.740	2234.248	2244.730	2217.775	2226.760
25	2133.916	2123.434	2144.399	2124.931	2118.941
30	2011.122	1991.655	2021.605	2011.122	2008.127
35	1856.881	1841.907	1880.841	1873.354	1882.339
40	1677.183	1674.188	1716.118	1722.108	1714.620
45	1481.013	1485.505	1546.902	1560.379	1569.364
50	1272.862	1295.325	1359.716	1392.661	1392.661
55	1060.219	1102.149	1165.043	1229.435	1214.460
60	868.541	904.481	979.355	1031.767	1024.280
65	679.858	711.305	805.647	843.084	826.612
70	485.185	543.587	621.456	639.426	631.939
75	302.492	380.361	423.788	441.758	441.758
80	154.241	226.120	242.593	256.070	245.588
85	46.422	88.352	76.372	83.859	89.849
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	881.46	N.A.	13.50
0-30	1862.68	N.A.	28.40
0-40	3028.67	N.A.	46.20
0-60	5243.2	N.A.	80.00
0-80	6444.02	N.A.	98.40
0-90	6550.03	N.A.	100.00
10-90	6321.58	N.A.	96.50
20-40	2147.21	N.A.	32.80
20-50	3326.41	N.A.	50.80
40-70	2985.12	N.A.	45.60
60-80	1200.82	N.A.	18.30
70-80	430.24	N.A.	6.60
80-90	106.01	N.A.	1.60
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	6550.03	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	228.46
10-20	653.00
20-30	981.22
30-40	1165.99
40-50	1179.21
50-60	1035.32
60-70	770.59
70-80	430.24
80-90	106.01
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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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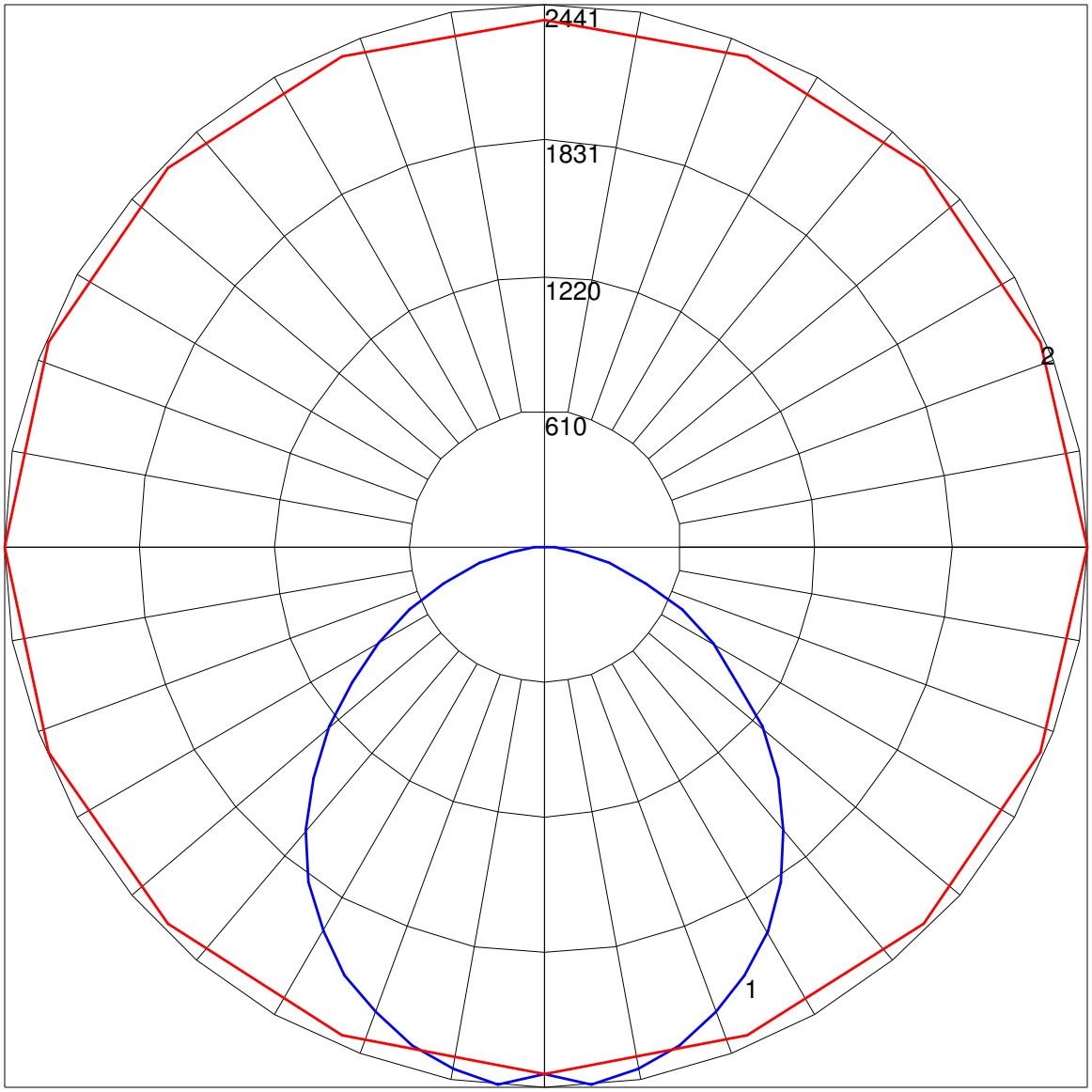
POLAR GRAPH



Maximum Candela = 2440.901 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.)