IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTR-24-L90-835-RA-TBOX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from BALLABS TEST NO. 19535.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 05-OCT-2016
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-56 LED 22"ARRAYS 2x4'RECESSED LUMINAIRE
[MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
[MORE] EVERLINE #D10CC55UNVTZ-C @ 1030mA
[LUMCAT] PTR-24-L90-835-RA-xxx-xxx
[LAMPCAT] M10CC840D56N2A

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9018
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	71.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3882	4191	4435
55	3370	3807	4177
65	2966	3664	4222
75	2244	3569	4523
85	1328	4761	5588

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	3405.003	3405.003	3405.003	3405.003	3405.003
5	3388.230	3388.230	3388.230	3389.755	3389.755
10	3330.285	3330.285	3333.335	3339.435	3342.484
15	3167.126	3171.700	3180.850	3194.573	3200.673
20	3104.607	3113.756	3136.629	3157.977	3164.076
25	2802.685	2816.409	2849.956	2878.928	2891.127
30	2587.681	2609.029	2651.725	2698.995	2714.244
35	2355.902	2384.875	2444.344	2502.289	2526.686
40	2113.450	2150.047	2230.864	2301.008	2326.930
45	1916.744	1965.539	2069.230	2157.671	2189.693
50	1634.646	1684.966	1799.330	1893.871	1933.517
55	1349.498	1401.343	1524.856	1634.646	1672.767
60	1088.747	1146.692	1268.680	1379.995	1419.641
65	875.267	939.311	1081.123	1204.636	1245.807
70	634.340	712.108	861.544	988.107	1032.327
75	405.612	491.004	645.014	770.052	817.323
80	224.154	332.419	494.053	617.567	660.263
85	80.817	187.557	289.723	332.419	340.043
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1229.09	N.A.	13.60
0-30	2552.8	N.A.	28.30
0-40	4082.14	N.A.	45.30
0-60	7016.32	N.A.	77.80
0-80	8750.82	N.A.	97.00
0-90	9018.08	N.A.	100.00
10-90	8696.34	N.A.	96.40
20-40	2853.05	N.A.	31.60
20-50	4425.16	N.A.	49.10
40-70	3987.73	N.A.	44.20
60-80	1734.5	N.A.	19.20
70-80	680.95	N.A.	7.60
80-90	267.26	N.A.	3.00
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	9018.08	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	321.74
10-20	907.35
20-30	1323.7
30-40	1529.35
40-50	1572.11
50-60	1362.07
60-70	1053.55
70-80	680.95
80-90	267.26
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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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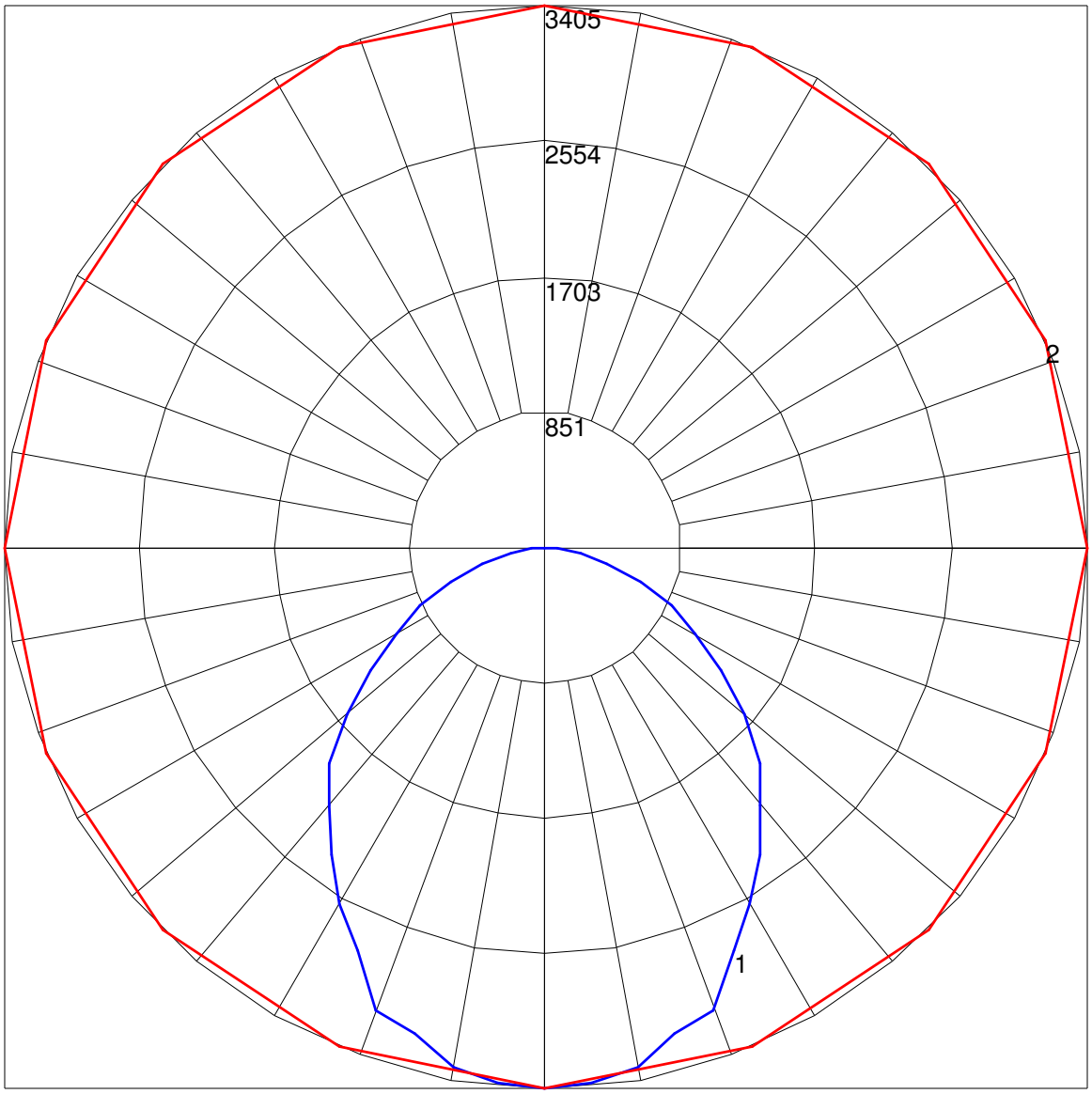
POLAR GRAPH



Maximum Candela = 3405.003 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.)