IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-24-L37-8FS-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from BALLABS TEST NO. 20790.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 03-MAY-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 2-84 LED 22"ARRAYS w/WHITE REFLECTOR
[MORE] FROST SQUARED RIBBED LENS - 2x4 RECESSED LUMINAIRE
[MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
[LUMCAT] PT-24-L37-8FS-SA-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3784
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	30.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1673	1621	1609
55	1505	1514	1547
65	1315	1455	1594
75	1062	1469	1834
85	492	1586	1916

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1473.657	1473.657	1473.657	1473.657	1473.657
5	1480.979	1464.709	1456.574	1436.236	1454.947
10	1452.506	1435.016	1424.440	1422.406	1425.254
15	1404.509	1387.426	1378.071	1374.817	1372.376
20	1340.650	1323.973	1308.516	1300.788	1302.008
25	1260.927	1247.097	1240.589	1220.252	1212.523
30	1167.781	1153.544	1138.901	1127.919	1121.818
35	1070.974	1057.958	1040.468	1025.418	1016.876
40	959.931	949.356	931.052	919.256	912.341
45	852.549	840.347	826.110	819.602	820.009
50	739.066	735.405	719.948	722.796	726.456
55	622.328	622.328	625.989	635.751	639.819
60	513.726	516.166	532.843	549.520	559.689
65	400.649	415.292	443.358	472.237	485.660
70	292.047	316.452	356.720	395.361	411.225
75	198.087	223.306	274.150	324.180	342.077
80	103.721	146.837	199.714	252.592	269.269
85	30.913	69.554	99.654	113.077	120.398
90	0.000	1.220	1.627	2.847	1.627

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	527.29	N.A.	13.90
0-30	1095.59	N.A.	29.00
0-40	1746.75	N.A.	46.20
0-60	2952.03	N.A.	78.00
0-80	3681.54	N.A.	97.30
0-90	3784.17	N.A.	100.00
10-90	3645.88	N.A.	96.30
20-40	1219.46	N.A.	32.20
20-50	1861.05	N.A.	49.20
40-70	1645.07	N.A.	43.50
60-80	729.51	N.A.	19.30
70-80	289.72	N.A.	7.70
80-90	102.63	N.A.	2.70
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	3784.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	138.29
10-20	389.00
20-30	568.30
30-40	651.16
40-50	641.60
50-60	563.68
60-70	439.79
70-80	289.72
80-90	102.63
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	48	48	48	48	47	47	47	47	45	45	45	43	43	43	42	42	42	41
1	44	42	40	39	43	41	40	38	39	38	37	38	37	36	36	35	35	34
2	40	37	34	32	39	36	33	31	34	32	30	33	31	30	32	30	29	28
3	37	32	29	26	36	32	29	26	30	28	26	29	27	25	28	26	25	24
4	34	29	25	22	33	28	25	22	27	24	22	26	24	22	25	23	21	20
5	31	26	22	19	30	25	22	19	24	21	19	24	21	19	23	20	19	18
6	29	23	20	17	28	23	19	17	22	19	17	21	19	17	21	18	16	16
7	27	21	18	15	26	21	17	15	20	17	15	20	17	15	19	17	15	14
8	25	19	16	13	24	19	16	13	18	15	13	18	15	13	17	15	13	12
9	23	18	14	12	23	17	14	12	17	14	12	17	14	12	16	14	12	11
10	22	16	13	11	21	16	13	11	16	13	11	15	13	11	15	13	11	10

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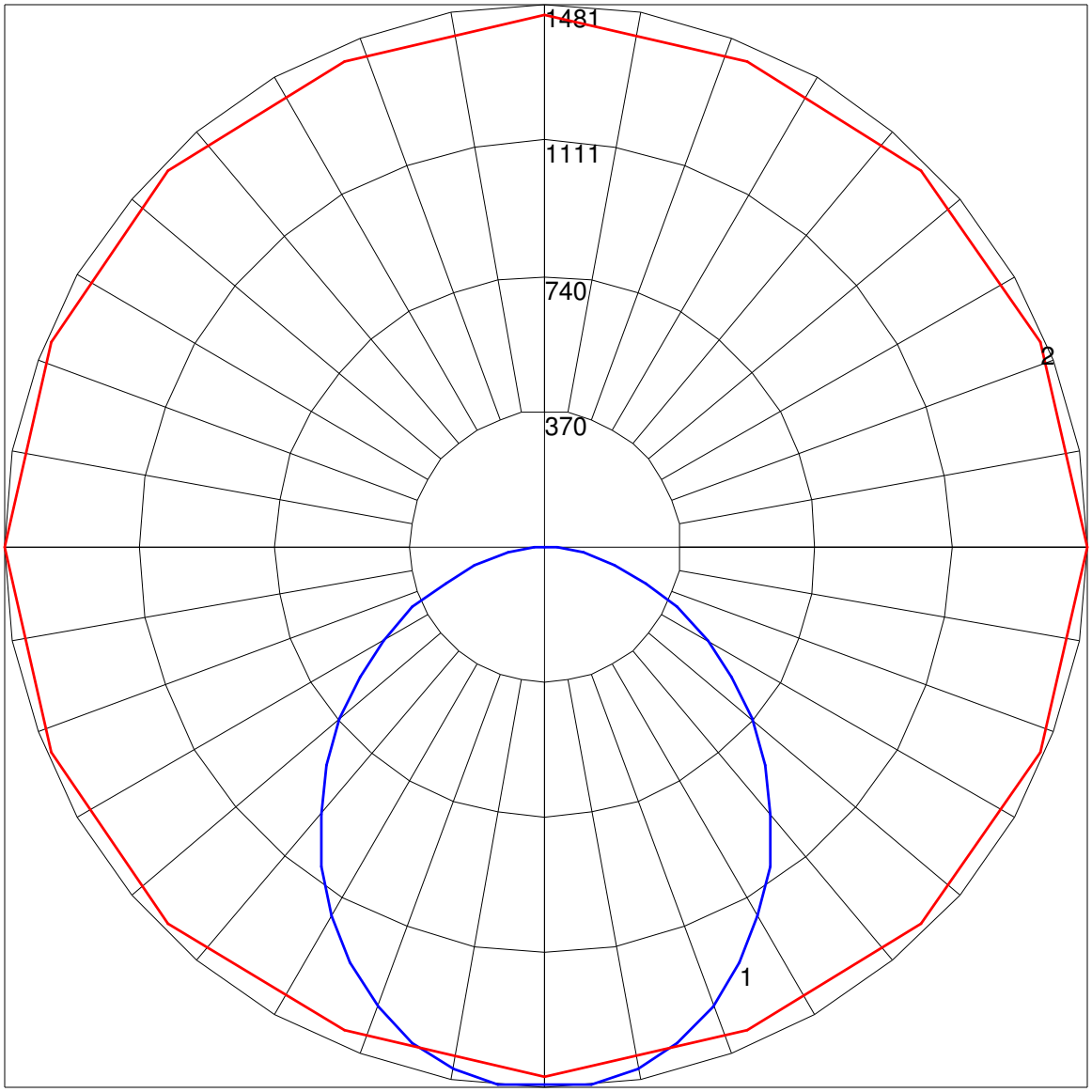
POLAR GRAPH



Maximum Candela = 1480.979 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.)