IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-14-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 - 1x4 RECESSED LUMINAIRE
[MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
[LUMCAT] PT-14-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)	0.98 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3381	3276	3252
55	3043	3061	3128
65	2659	2942	3223
75	2146	2970	3706
85	995	3206	3874

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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	179	179	179	179	175	175	175	175	167	167	167	160	160	160	154	154	154	151
1	163	156	149	143	159	152	146	141	146	141	136	140	136	132	135	131	128	125
2	148	136	125	117	144	133	123	115	128	119	113	123	116	110	118	112	107	104
3	135	119	107	97	132	117	106	96	113	103	95	108	100	93	105	97	91	88
4	124	106	93	83	121	104	92	82	100	89	81	97	87	80	93	85	79	75
5	114	95	81	71	111	93	81	71	90	79	70	87	77	70	84	76	69	66
6	106	86	72	63	103	84	72	62	82	70	62	79	69	61	77	68	61	58
7	98	78	65	56	96	77	64	55	74	63	55	72	62	55	70	61	54	51
8	92	71	59	50	89	70	58	50	68	57	49	66	56	49	65	55	49	46
9	86	66	53	45	84	65	53	45	63	52	45	61	51	44	60	51	44	41
10	80	61	49	41	78	60	48	41	58	48	41	57	47	40	56	47	40	38

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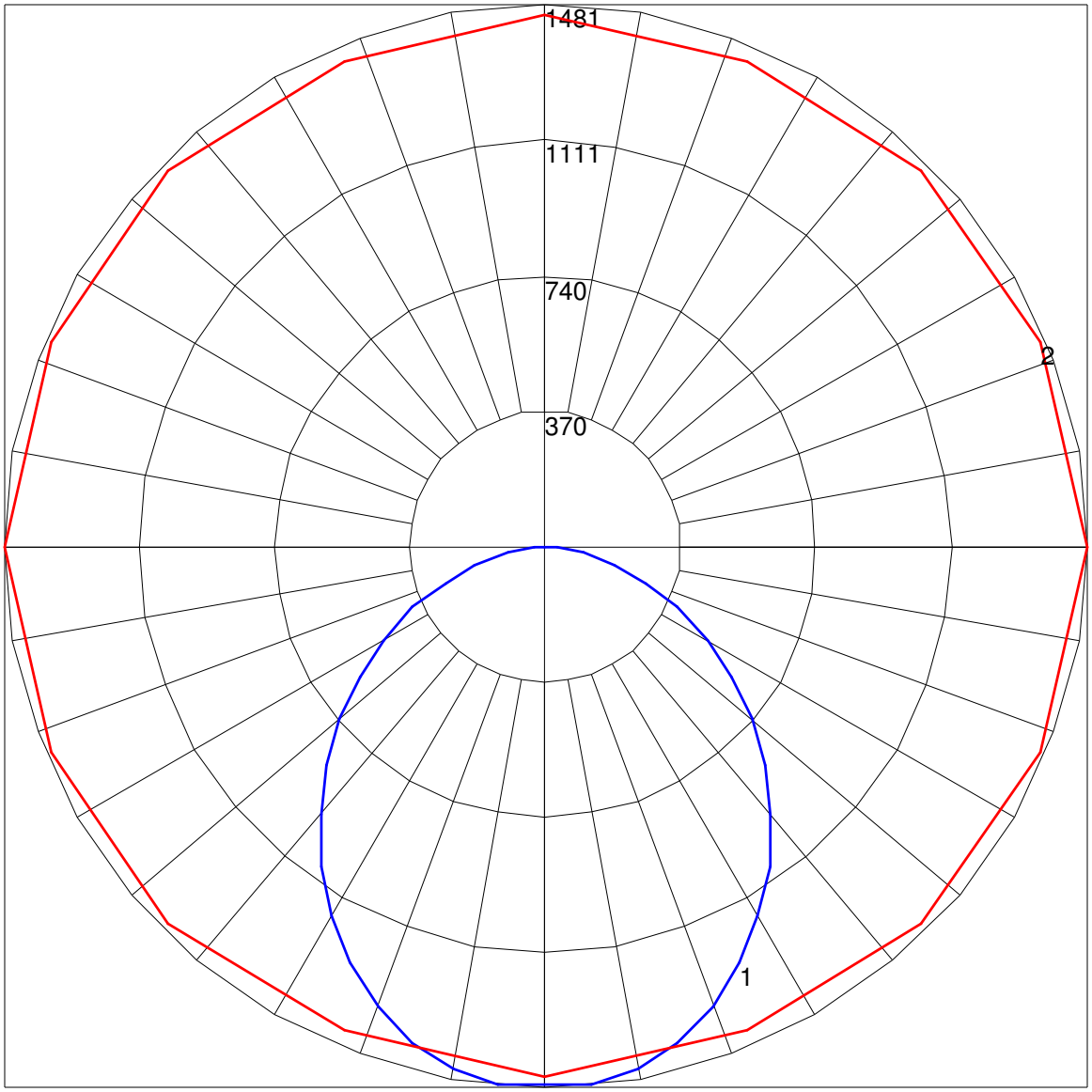
POLAR GRAPH



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.)