IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTS-24-L38-835-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 SURFACE LUMINAIRE
[MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
[LUMCAT] PTS-24-L38-835-SA-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	31.4
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	1713	1660	1648
55	1542	1551	1585
65	1347	1491	1633
75	1088	1505	1878
85	504	1625	1963

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1509.486	1509.486	1509.486	1509.486	1509.486
5	1516.985	1500.320	1491.987	1471.155	1490.320
10	1487.820	1469.905	1459.072	1456.989	1459.905
15	1438.657	1421.158	1411.575	1408.242	1405.742
20	1373.244	1356.162	1340.330	1332.414	1333.664
25	1291.583	1277.417	1270.751	1249.919	1242.003
30	1196.173	1181.590	1166.591	1155.342	1149.092
35	1097.012	1083.680	1065.764	1050.349	1041.599
40	983.270	972.437	953.688	941.606	934.523
45	873.277	860.778	846.195	839.529	839.946
50	757.034	753.285	737.452	740.369	744.118
55	637.459	637.459	641.208	651.208	655.374
60	526.216	528.716	545.798	562.880	573.296
65	410.390	425.389	454.137	483.719	497.468
70	299.147	324.146	365.393	404.974	421.223
75	202.904	228.735	280.815	332.062	350.394
80	106.243	150.407	204.570	258.733	275.815
85	31.665	71.245	102.077	115.826	123.325
90	0.000	1.250	1.667	2.916	1.667

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	540.11	N.A.	13.90
0-30	1122.23	N.A.	29.00
0-40	1789.22	N.A.	46.20
0-60	3023.8	N.A.	78.00
0-80	3771.05	N.A.	97.30
0-90	3876.17	N.A.	100.00
10-90	3734.52	N.A.	96.30
20-40	1249.11	N.A.	32.20
20-50	1906.3	N.A.	49.20
40-70	1685.06	N.A.	43.50
60-80	747.25	N.A.	19.30
70-80	296.77	N.A.	7.70
80-90	105.13	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	3876.17	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	141.65
10-20	398.46
20-30	582.11
30-40	666.99
40-50	657.20
50-60	577.39
60-70	450.48
70-80	296.77
80-90	105.13
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	53	53	53	53	52	52	52	52	49	49	49	47	47	47	45	45	45	44
1	48	46	44	42	47	45	43	42	43	42	40	41	40	39	40	39	38	37
2	44	40	37	34	43	39	36	34	38	35	33	36	34	32	35	33	32	31
3	40	35	32	29	39	35	31	28	33	30	28	32	30	27	31	29	27	26
4	37	31	27	24	36	31	27	24	30	26	24	29	26	24	28	25	23	22
5	34	28	24	21	33	28	24	21	27	23	21	26	23	21	25	22	20	19
6	31	25	21	18	30	25	21	18	24	21	18	23	20	18	23	20	18	17
7	29	23	19	16	28	23	19	16	22	19	16	21	18	16	21	18	16	15
8	27	21	17	15	26	21	17	15	20	17	15	20	17	14	19	16	14	14
9	25	19	16	13	25	19	16	13	19	15	13	18	15	13	18	15	13	12
10	24	18	14	12	23	18	14	12	17	14	12	17	14	12	16	14	12	11

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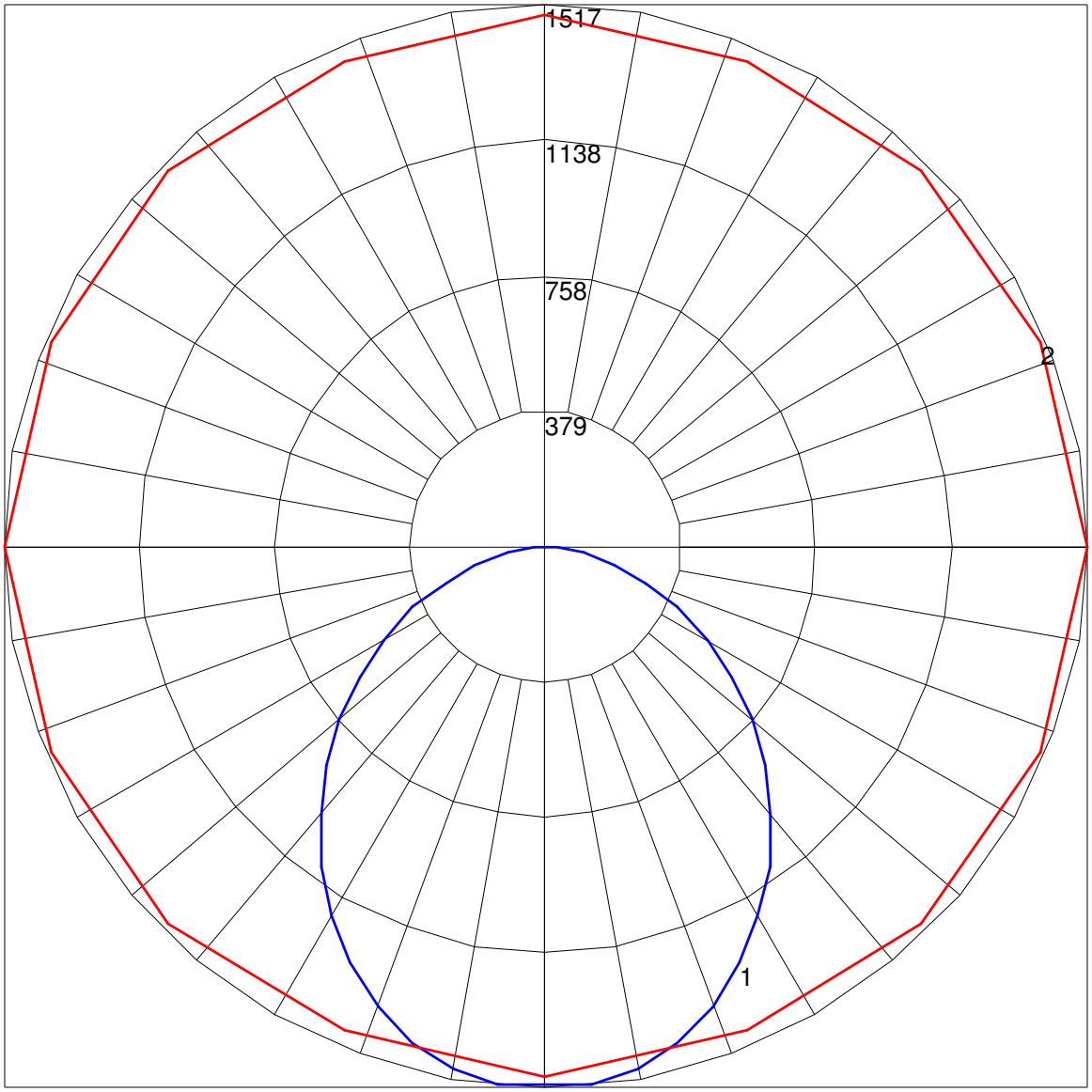
POLAR GRAPH



Maximum Candela = 1516.985 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.)