IES INDOOR REPORT
PHOTOMETRIC FILENAME : PTS-14-L27-835-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 - 1x4 SURFACE LUMINAIRE
[MORE] ADVANCE #XI075C200V054BST1 @ 1525mA
[LUMCAT] PTS-14-L27-835-SA-DIM-UNV
[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	21.4
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)	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	2506	2429	2411
55	2255	2269	2319
65	1971	2181	2389
75	1591	2202	2747
85	737	2377	2872

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1092.391	1092.391	1092.391	1092.391	1092.391
5	1097.818	1085.758	1079.727	1064.652	1078.521
10	1076.712	1063.747	1055.908	1054.400	1056.511
15	1041.133	1028.470	1021.535	1019.123	1017.314
20	993.795	981.433	969.976	964.247	965.151
25	934.698	924.447	919.623	904.547	898.818
30	865.651	855.098	844.244	836.103	831.580
35	793.891	784.242	771.277	760.121	753.789
40	711.577	703.737	690.169	681.425	676.300
45	631.977	622.931	612.378	607.554	607.855
50	547.854	545.140	533.683	535.793	538.507
55	461.319	461.319	464.033	471.269	474.284
60	380.814	382.623	394.985	407.348	414.885
65	296.993	307.847	328.652	350.060	360.010
70	216.488	234.579	264.429	293.073	304.832
75	146.838	165.532	203.222	240.308	253.575
80	76.886	108.847	148.044	187.241	199.603
85	22.915	51.559	73.871	83.821	89.249
90	0.000	0.905	1.206	2.111	1.206

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	390.87	N.A.	13.90
0-30	812.14	N.A.	29.00
0-40	1294.83	N.A.	46.20
0-60	2188.28	N.A.	78.00
0-80	2729.05	N.A.	97.30
0-90	2805.13	N.A.	100.00
10-90	2702.62	N.A.	96.30
20-40	903.96	N.A.	32.20
20-50	1379.56	N.A.	49.20
40-70	1219.45	N.A.	43.50
60-80	540.77	N.A.	19.30
70-80	214.77	N.A.	7.70
80-90	76.08	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	2805.13	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.51
10-20	288.36
20-30	421.27
30-40	482.69
40-50	475.60
50-60	417.85
60-70	326.00
70-80	214.77
80-90	76.08
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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	61	61	61	60
1	65	62	60	57	64	61	58	56	58	56	55	56	54	53	54	52	51	50
2	59	54	50	47	58	53	49	46	51	48	45	49	46	44	47	45	43	42
3	54	48	43	39	53	47	42	38	45	41	38	43	40	37	42	39	37	35
4	50	42	37	33	48	42	37	33	40	36	32	39	35	32	37	34	31	30
5	46	38	33	29	44	37	32	28	36	32	28	35	31	28	34	30	27	26
6	42	34	29	25	41	34	29	25	33	28	25	32	28	24	31	27	24	23
7	39	31	26	22	38	31	26	22	30	25	22	29	25	22	28	24	22	20
8	37	28	23	20	36	28	23	20	27	23	20	27	23	20	26	22	19	18
9	34	26	21	18	33	26	21	18	25	21	18	25	21	18	24	20	18	17
10	32	24	19	16	31	24	19	16	23	19	16	23	19	16	22	19	16	15

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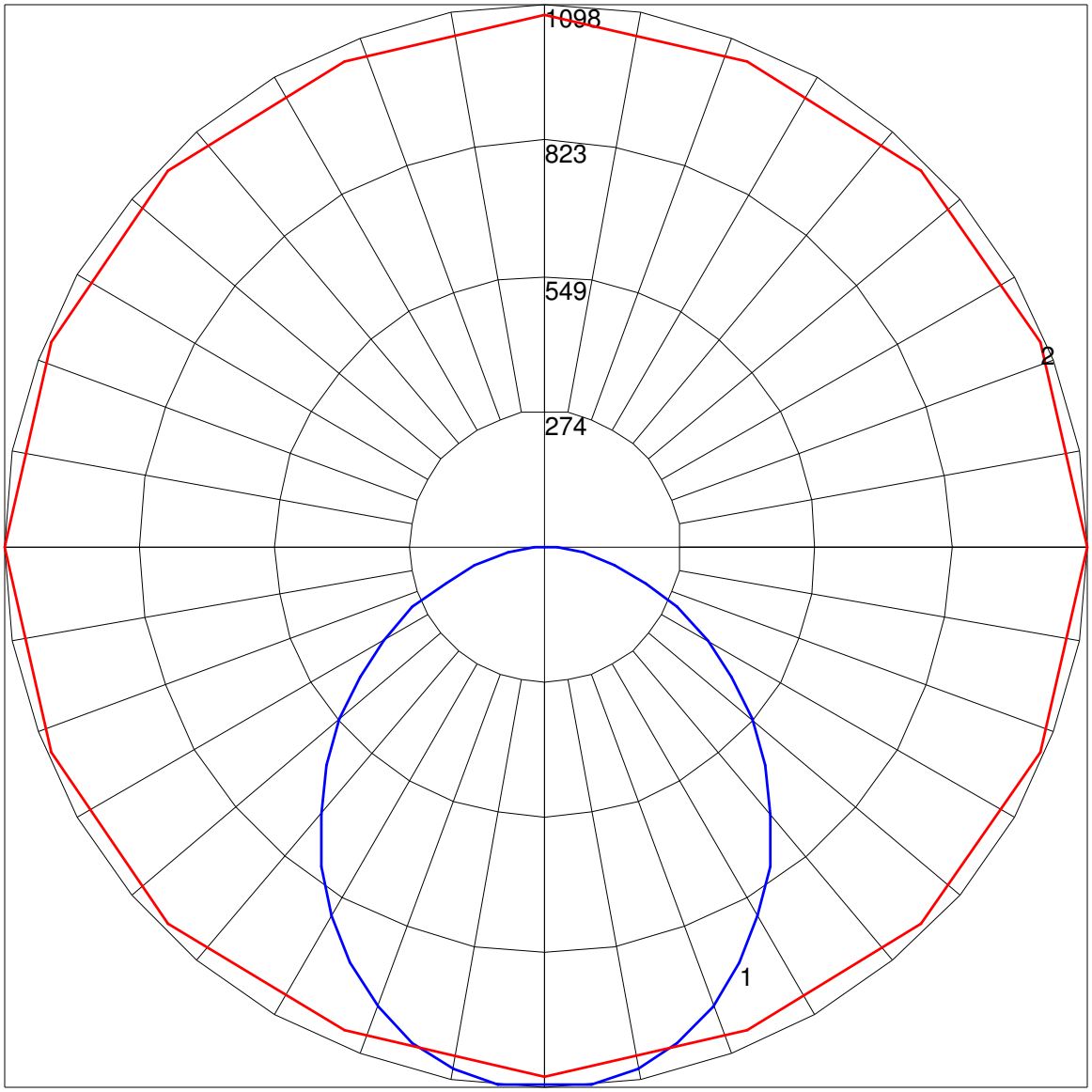
POLAR GRAPH



Maximum Candela = 1097.818 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.)

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