IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-L24-8FS-SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN from BALLABS TEST NO. 20789.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 30-APR-2019
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1-84 LED 22"ARRAY 2x2 LUMINAIRE
[MORE] WHITE REFLECTOR w/FROST SQUARED RIBBED LENS
[MORE] ADVANCE #C1042C092V045CNN1
[LUMCAT] PT-22-L36-8FS-SA-DIM-UNV

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2473
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	20.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 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	2211	2178	2148
55	1987	2005	2060
65	1739	1897	2130
75	1355	1910	2469
85	705	1778	2395

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	980.166	980.166	980.166	980.166	980.166
5	980.166	973.842	969.777	970.229	969.325
10	959.388	954.420	950.354	948.548	947.193
15	925.512	921.898	917.381	913.768	912.864
20	887.118	881.246	870.405	868.147	865.889
25	831.108	828.850	816.203	809.879	805.814
30	767.420	763.807	755.225	745.287	738.512
35	695.602	696.505	685.664	675.727	671.662
40	621.976	624.235	613.394	606.619	603.909
45	551.513	550.158	543.382	541.124	535.704
50	476.532	477.887	471.564	476.984	472.467
55	402.004	406.069	405.617	416.909	416.909
60	328.830	331.540	343.284	358.641	365.417
65	259.270	266.045	282.758	304.890	317.538
70	188.806	200.550	228.555	257.011	272.369
75	123.763	144.541	174.352	207.325	225.393
80	65.495	88.983	122.408	154.929	171.642
85	21.681	36.135	54.654	66.850	73.625
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	350.77	N.A.	14.20
0-30	727.29	N.A.	29.40
0-40	1156.14	N.A.	46.70
0-60	1943.59	N.A.	78.60
0-80	2412.25	N.A.	97.50
0-90	2473.18	N.A.	100.00
10-90	2381.02	N.A.	96.30
20-40	805.37	N.A.	32.60
20-50	1226.01	N.A.	49.60
40-70	1071.09	N.A.	43.30
60-80	468.65	N.A.	18.90
70-80	185.01	N.A.	7.50
80-90	60.94	N.A.	2.50
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	2473.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.16
10-20	258.61
20-30	376.53
30-40	428.85
40-50	420.64
50-60	366.81
60-70	283.64
70-80	185.01
80-90	60.94
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	54	54	54	54	53	53	53	53	50	50	50	48	48	48	46	46	46	45
1	49	47	45	43	48	46	44	42	44	42	41	42	41	40	40	40	39	38
2	45	41	38	35	43	40	37	35	38	36	34	37	35	33	36	34	32	31
3	41	36	32	29	40	35	32	29	34	31	29	33	30	28	32	29	28	27
4	37	32	28	25	36	31	28	25	30	27	24	29	26	24	28	26	24	23
5	34	29	25	22	33	28	24	22	27	24	21	26	23	21	25	23	21	20
6	32	26	22	19	31	25	22	19	25	21	19	24	21	19	23	20	18	17
7	30	24	20	17	29	23	19	17	22	19	17	22	19	17	21	18	16	16
8	28	22	18	15	27	21	18	15	21	17	15	20	17	15	20	17	15	14
9	26	20	16	14	25	20	16	14	19	16	14	19	16	13	18	15	13	13
10	24	18	15	12	24	18	15	12	18	14	12	17	14	12	17	14	12	11

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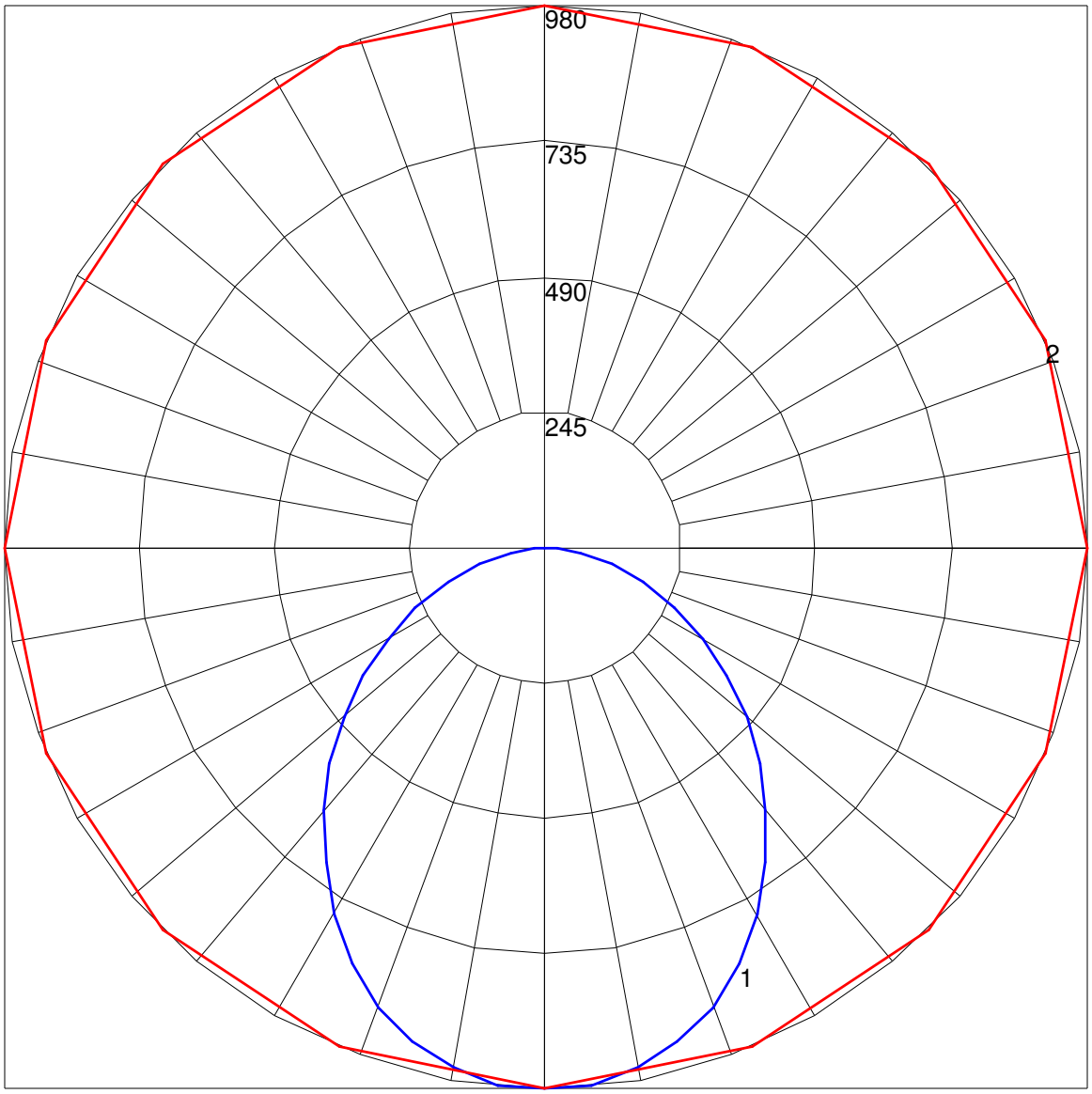
POLAR GRAPH



Maximum Candela = 980.166 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.)