IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P31-835-RA-POEX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 19562.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 12-OCT-2016
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 1-22" LED ARRAY 2x2'RECESSED LUMINAIRE
[MORE] WHITE REFLECTOR w/CENTER FROSTED RIBBED ACRYLIC LENS
[LUMCAT] PT-22-P31-835-RA-POEx
[LAMPCAT] HLM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3140
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.93 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2950	3060	3160
55	2494	2748	2933
65	1907	2385	2652
75	1325	2115	2614
85	755	1725	2156

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1200.009	1200.009	1200.009	1200.009	1200.009
5	1204.044	1196.781	1195.167	1191.132	1191.132
10	1187.904	1180.641	1179.834	1175.799	1174.992
15	1159.659	1151.589	1150.782	1149.168	1148.361
20	1119.309	1112.046	1111.239	1112.046	1112.046
25	1062.819	1055.556	1060.398	1063.626	1060.398
30	993.417	990.189	995.031	1000.680	996.645
35	913.524	912.717	923.208	927.243	931.278
40	821.526	821.526	839.280	846.543	852.999
45	716.616	716.616	743.247	760.194	767.457
50	606.057	606.864	642.372	664.968	675.459
55	491.463	500.340	541.497	565.707	577.812
60	379.290	397.044	438.201	464.832	477.744
65	276.801	300.204	346.203	375.255	384.939
70	186.417	215.469	261.468	291.327	302.625
75	117.822	146.067	188.031	217.890	232.416
80	63.753	87.963	125.085	146.067	160.593
85	22.596	39.543	51.648	51.648	64.560
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	438.44	N.A.	14.00
0-30	926.48	N.A.	29.50
0-40	1501.95	N.A.	47.80
0-60	2551.59	N.A.	81.30
0-80	3082.44	N.A.	98.20
0-90	3139.88	N.A.	100.00
10-90	3026.3	N.A.	96.40
20-40	1063.51	N.A.	33.90
20-50	1634.15	N.A.	52.00
40-70	1386.63	N.A.	44.20
60-80	530.84	N.A.	16.90
70-80	193.86	N.A.	6.20
80-90	57.44	N.A.	1.80
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	3139.88	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.58
10-20	324.86
20-30	488.04
30-40	575.47
40-50	570.63
50-60	479.01
60-70	336.99
70-80	193.86
80-90	57.44
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	91	85	79	97	90	83	78	86	81	76	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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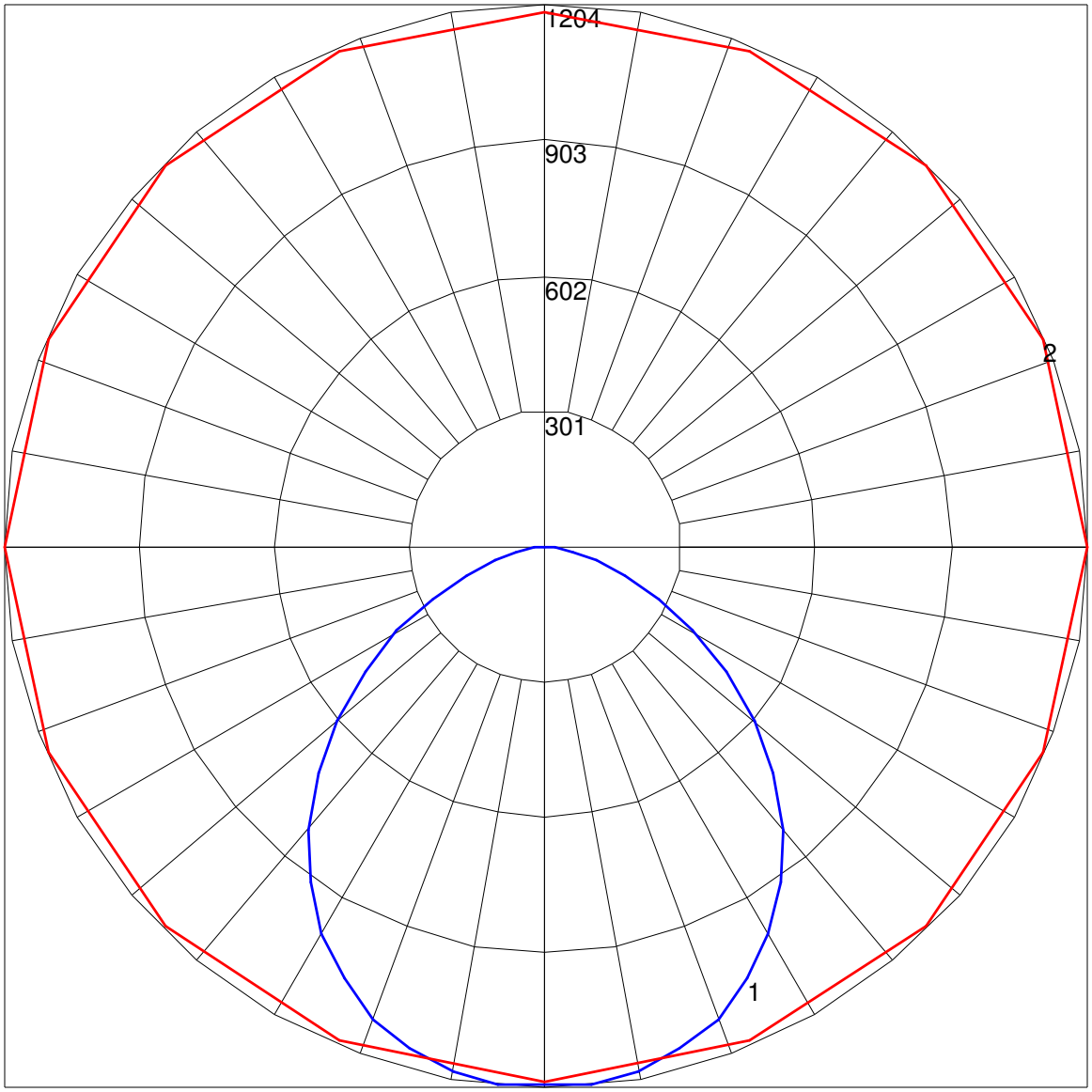
POLAR GRAPH



Maximum Candela = 1204.044 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.)