H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P22-8TW-SA-POE X_4000K.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] 16-MAY-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
[LUMCAT] PT-22-P22-8TW-SA-POE x
[LAMPCAT] HLM 80 CRI TUNABLE WHITE CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2370
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	17
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	2119	2088	2058
55	1904	1921	1975
65	1667	1818	2041
75	1299	1830	2366
85	676	1704	2295

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	939.342	939.342	939.342	939.342	939.342
5	939.342	933.282	929.386	929.819	928.953
10	919.430	914.668	910.773	909.041	907.742
15	886.964	883.501	879.173	875.710	874.844
20	850.170	844.542	834.153	831.989	829.825
25	796.493	794.329	782.208	776.148	772.252
30	735.458	731.995	723.770	714.247	707.753
35	666.630	667.496	657.107	647.584	643.688
40	596.071	598.236	587.847	581.353	578.756
45	528.542	527.244	520.751	518.586	513.392
50	456.685	457.984	451.923	457.118	452.789
55	385.260	389.156	388.723	399.545	399.545
60	315.134	317.732	328.986	343.704	350.197
65	248.471	254.964	270.981	292.192	304.312
70	180.942	192.197	219.036	246.307	261.025
75	118.608	138.521	167.090	198.690	216.005
80	62.767	85.277	117.310	148.477	164.493
85	20.778	34.630	52.378	64.066	70.559
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	336.16	N.A.	14.20
0-30	697.00	N.A.	29.40
0-40	1107.99	N.A.	46.70
0-60	1862.64	N.A.	78.60
0-80	2311.78	N.A.	97.50
0-90	2370.18	N.A.	100.00
10-90	2281.85	N.A.	96.30
20-40	771.83	N.A.	32.60
20-50	1174.95	N.A.	49.60
40-70	1026.48	N.A.	43.30
60-80	449.13	N.A.	18.90
70-80	177.31	N.A.	7.50
80-90	58.40	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	2370.18	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	88.32
10-20	247.84
20-30	360.84
30-40	410.99
40-50	403.12
50-60	351.53
60-70	271.83
70-80	177.31
80-90	58.40
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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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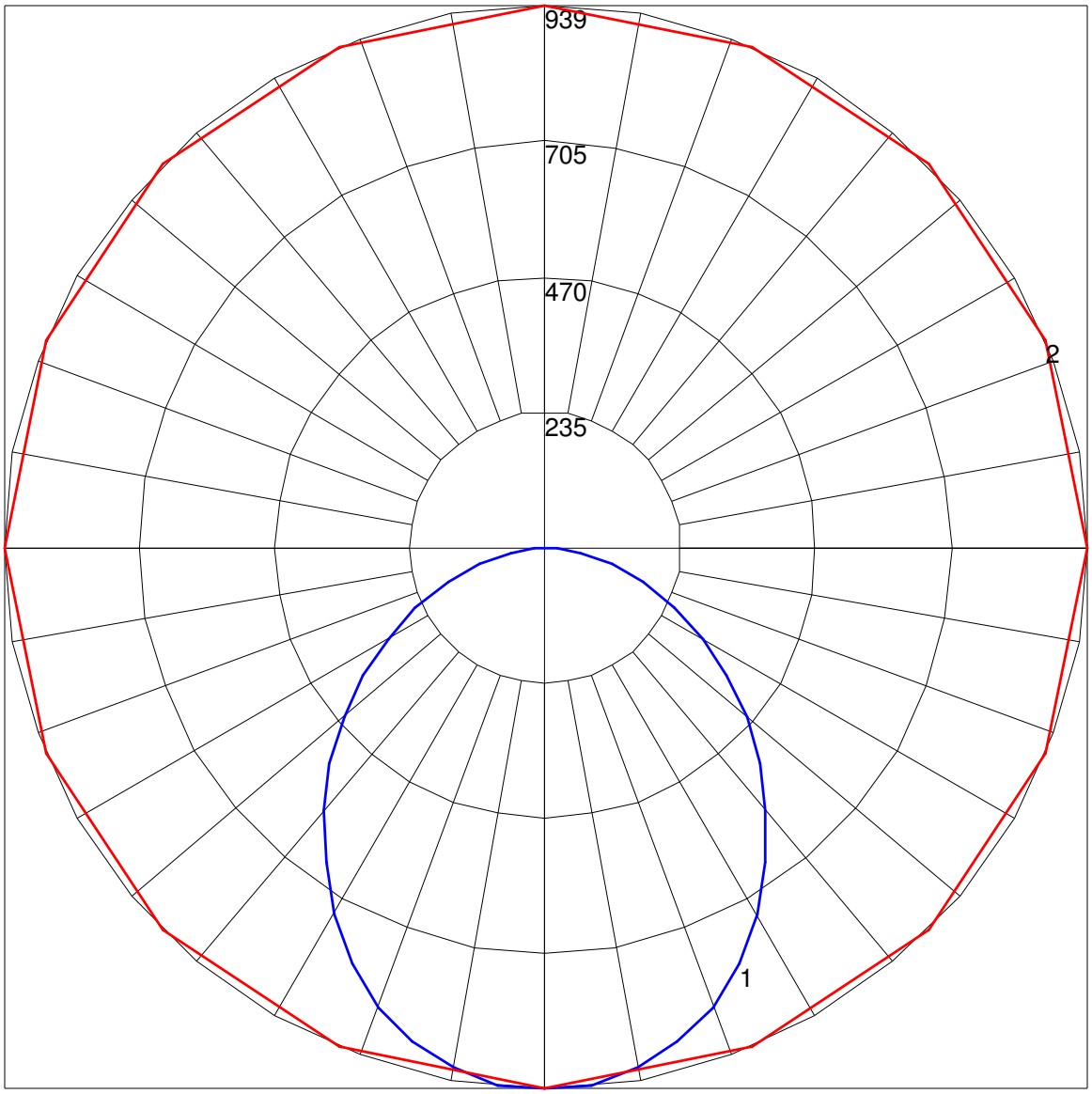
POLAR GRAPH



Maximum Candela = 939.342 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.)