H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-22-P47-8TW-SA-POE N_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-P47-8TW-SA-POE N
[LAMPCAT] HLM 80 CRI TUNABLE WHITE CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	37
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	4465	4399	4337
55	4012	4048	4161
65	3512	3830	4301
75	2737	3856	4985
85	1424	3590	4836

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1979.357	1979.357	1979.357	1979.357	1979.357
5	1979.357	1966.587	1958.378	1959.290	1957.466
10	1937.398	1927.365	1919.155	1915.507	1912.770
15	1868.987	1861.690	1852.569	1845.272	1843.447
20	1791.455	1779.597	1757.706	1753.145	1748.584
25	1678.349	1673.788	1648.248	1635.478	1627.269
30	1549.736	1542.439	1525.108	1505.041	1491.359
35	1404.705	1406.529	1384.638	1364.571	1356.361
40	1256.025	1260.586	1238.694	1225.012	1219.539
45	1113.730	1110.994	1097.312	1092.751	1081.805
50	962.314	965.051	952.281	963.226	954.105
55	811.810	820.019	819.107	841.911	841.911
60	664.042	669.515	693.231	724.244	737.926
65	523.572	537.254	571.003	615.699	641.239
70	381.277	404.993	461.546	519.011	550.024
75	249.928	291.887	352.088	418.675	455.161
80	132.261	179.693	247.192	312.866	346.616
85	43.783	72.972	110.370	134.998	148.680
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	708.34	N.A.	14.20
0-30	1468.7	N.A.	29.40
0-40	2334.72	N.A.	46.70
0-60	3924.91	N.A.	78.60
0-80	4871.31	N.A.	97.50
0-90	4994.37	N.A.	100.00
10-90	4808.26	N.A.	96.30
20-40	1626.38	N.A.	32.60
20-50	2475.83	N.A.	49.60
40-70	2162.98	N.A.	43.30
60-80	946.40	N.A.	18.90
70-80	373.61	N.A.	7.50
80-90	123.06	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	4994.37	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	186.11
10-20	522.23
20-30	760.36
30-40	866.02
40-50	849.44
50-60	740.74
60-70	572.79
70-80	373.61
80-90	123.06
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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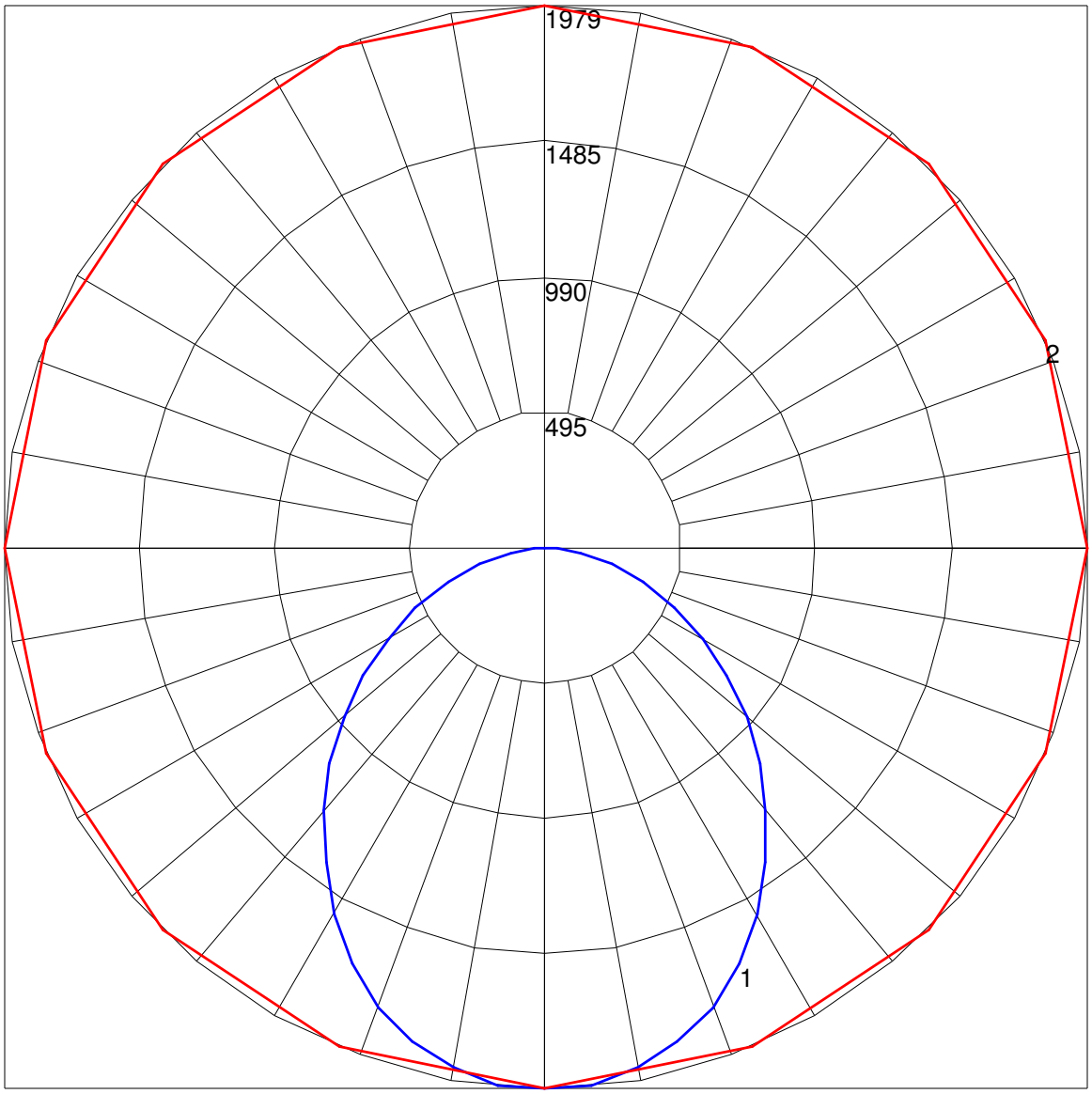
POLAR GRAPH



Maximum Candela = 1979.357 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.)