H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-14-P65-8TW-SA-POE N_4000K.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] 16-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 LUMINAIRE
[LUMCAT] PT-14-P65-8TW-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	6948
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	50
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	6202	6010	5965
55	5581	5614	5738
65	4877	5396	5911
75	3937	5449	6799
85	1824	5882	7106

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2705.859	2705.859	2705.859	2705.859	2705.859
5	2719.302	2689.428	2674.491	2637.148	2671.504
10	2667.022	2634.908	2615.489	2611.755	2616.983
15	2578.893	2547.526	2530.348	2524.373	2519.892
20	2461.637	2431.016	2402.635	2388.445	2390.686
25	2315.253	2289.860	2277.911	2240.568	2226.377
30	2144.223	2118.083	2091.197	2071.031	2059.829
35	1966.472	1942.572	1910.457	1882.824	1867.140
40	1762.580	1743.162	1709.553	1687.894	1675.198
45	1565.410	1543.004	1516.864	1504.915	1505.662
50	1357.037	1350.315	1321.935	1327.163	1333.885
55	1142.690	1142.690	1149.411	1167.336	1174.804
60	943.279	947.760	978.381	1009.002	1027.674
65	735.653	762.540	814.073	867.100	891.746
70	536.243	581.054	654.993	725.944	755.071
75	363.719	410.024	503.381	595.244	628.106
80	190.448	269.615	366.706	463.798	494.419
85	56.761	127.712	182.980	207.626	221.069
90	0.000	2.241	2.987	5.228	2.987

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	968.19	N.A.	13.90
0-30	2011.67	N.A.	29.00
0-40	3207.3	N.A.	46.20
0-60	5420.37	N.A.	78.00
0-80	6759.87	N.A.	97.30
0-90	6948.31	N.A.	100.00
10-90	6694.4	N.A.	96.30
20-40	2239.11	N.A.	32.20
20-50	3417.18	N.A.	49.20
40-70	3020.59	N.A.	43.50
60-80	1339.49	N.A.	19.30
70-80	531.98	N.A.	7.70
80-90	188.45	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	6948.31	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	253.92
10-20	714.27
20-30	1043.48
30-40	1195.63
40-50	1178.07
50-60	1035.01
60-70	807.52
70-80	531.98
80-90	188.45
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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	83	70	62	55	80	69	61	55	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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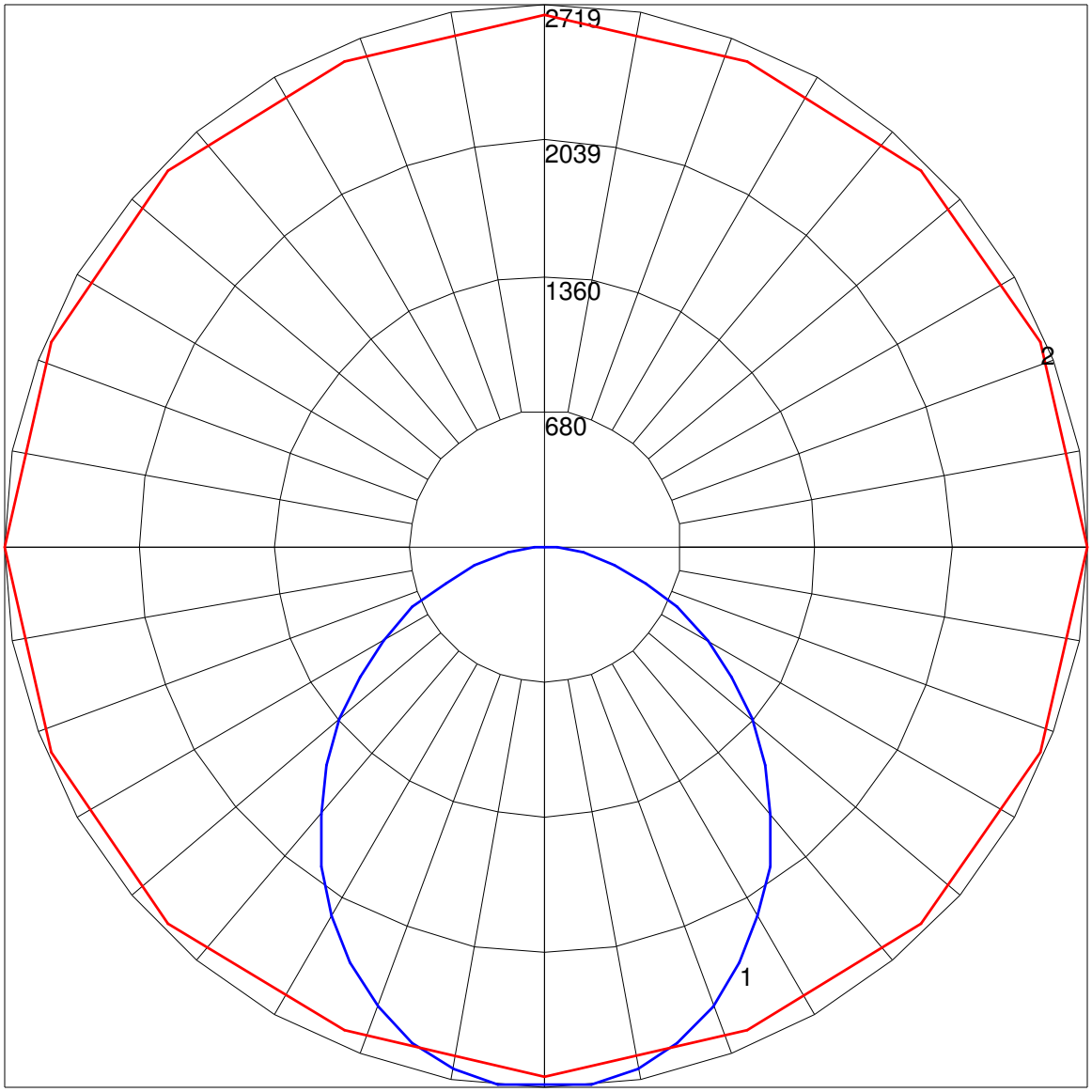
POLAR GRAPH



Maximum Candela = 2719.302 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.)