H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-24-P65-835-SA-POE N.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 - 2x4 LUMINAIRE
[LUMCAT] PT-24-P65-835-SA-POE N
[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6746
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
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)	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	2980	2888	2867
55	2682	2698	2757
65	2343	2593	2841
75	1892	2618	3267
85	877	2826	3415

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	2627.191	2627.191	2627.191	2627.191	2627.191
5	2640.244	2611.238	2596.735	2560.478	2593.834
10	2589.484	2558.302	2539.449	2535.823	2540.899
15	2503.917	2473.461	2456.783	2450.981	2446.631
20	2390.069	2360.339	2332.783	2319.005	2321.181
25	2247.941	2223.287	2211.684	2175.427	2161.650
30	2081.884	2056.504	2030.399	2010.820	1999.943
35	1909.300	1886.095	1854.914	1828.084	1812.856
40	1711.336	1692.482	1659.851	1638.822	1626.494
45	1519.899	1498.144	1472.764	1461.162	1461.887
50	1317.584	1311.057	1283.502	1288.578	1295.104
55	1109.468	1109.468	1115.994	1133.398	1140.649
60	915.855	920.206	949.937	979.667	997.796
65	714.265	740.370	790.405	841.890	865.820
70	520.652	564.161	635.950	704.838	733.119
75	353.144	398.103	488.746	577.939	609.845
80	184.911	261.776	356.045	450.313	480.044
85	55.111	123.999	177.660	201.590	214.642
90	0.000	2.175	2.901	5.076	2.901

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	940.04	N.A.	13.90
0-30	1953.18	N.A.	29.00
0-40	3114.05	N.A.	46.20
0-60	5262.79	N.A.	78.00
0-80	6563.34	N.A.	97.30
0-90	6746.3	N.A.	100.00
10-90	6499.77	N.A.	96.30
20-40	2174.01	N.A.	32.20
20-50	3317.83	N.A.	49.20
40-70	2932.77	N.A.	43.50
60-80	1300.55	N.A.	19.30
70-80	516.51	N.A.	7.70
80-90	182.97	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	6746.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	246.54
10-20	693.50
20-30	1013.14
30-40	1160.87
40-50	1143.82
50-60	1004.91
60-70	784.04
70-80	516.51
80-90	182.97
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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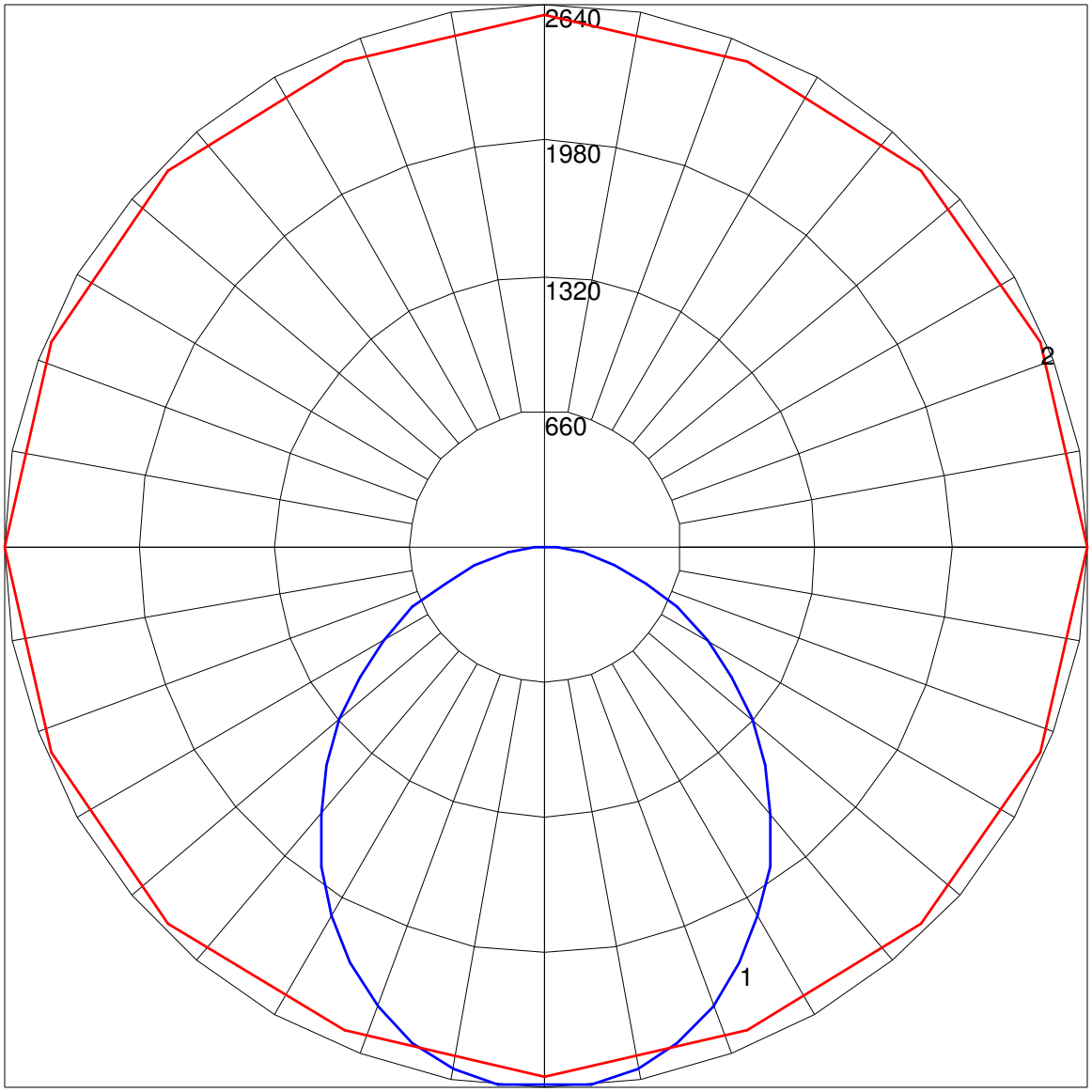
POLAR GRAPH



Maximum Candela = 2640.244 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.)