H.E. WILLIAMS, INC.

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PT-24-P33-835-SA-POE X.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-P33-835-SA-POE x
[LAMPCAT] HLM 80 CRI 3500K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3238
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	25
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	1431	1386	1376
55	1287	1295	1324
65	1125	1245	1363
75	908	1257	1568
85	421	1357	1639

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CANDELA TABULATION

	0.0	22.5	45.0	67.5	90.0
0	1261.021	1261.021	1261.021	1261.021	1261.021
5	1267.286	1253.363	1246.402	1228.999	1245.010
10	1242.922	1227.955	1218.905	1217.165	1219.602
15	1201.851	1187.232	1179.227	1176.442	1174.354
20	1147.205	1132.935	1119.708	1113.095	1114.139
25	1078.985	1067.151	1061.582	1044.179	1037.566
30	999.280	987.098	974.567	965.170	959.949
35	916.441	905.304	890.337	877.459	870.150
40	821.421	812.372	796.709	786.615	780.698
45	729.533	719.092	706.909	701.341	701.689
50	632.425	629.292	616.066	618.502	621.635
55	532.531	532.531	535.664	544.017	547.498
60	439.600	441.688	455.958	470.229	478.930
65	342.839	355.369	379.385	404.097	415.583
70	249.907	270.791	305.248	338.314	351.888
75	169.505	191.085	234.592	277.404	292.718
80	88.755	125.650	170.897	216.145	230.416
85	26.453	59.518	85.275	96.761	103.026
90	0.000	1.044	1.392	2.436	1.392

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	451.21	N.A.	13.90
0-30	937.51	N.A.	29.00
0-40	1494.71	N.A.	46.20
0-60	2526.08	N.A.	78.00
0-80	3150.32	N.A.	97.30
0-90	3238.15	N.A.	100.00
10-90	3119.81	N.A.	96.30
20-40	1043.5	N.A.	32.20
20-50	1592.52	N.A.	49.20
40-70	1407.7	N.A.	43.50
60-80	624.25	N.A.	19.30
70-80	247.92	N.A.	7.70
80-90	87.82	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	3238.15	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.33
10-20	332.87
20-30	486.30
30-40	557.20
40-50	549.02
50-60	482.35
60-70	376.33
70-80	247.92
80-90	87.82
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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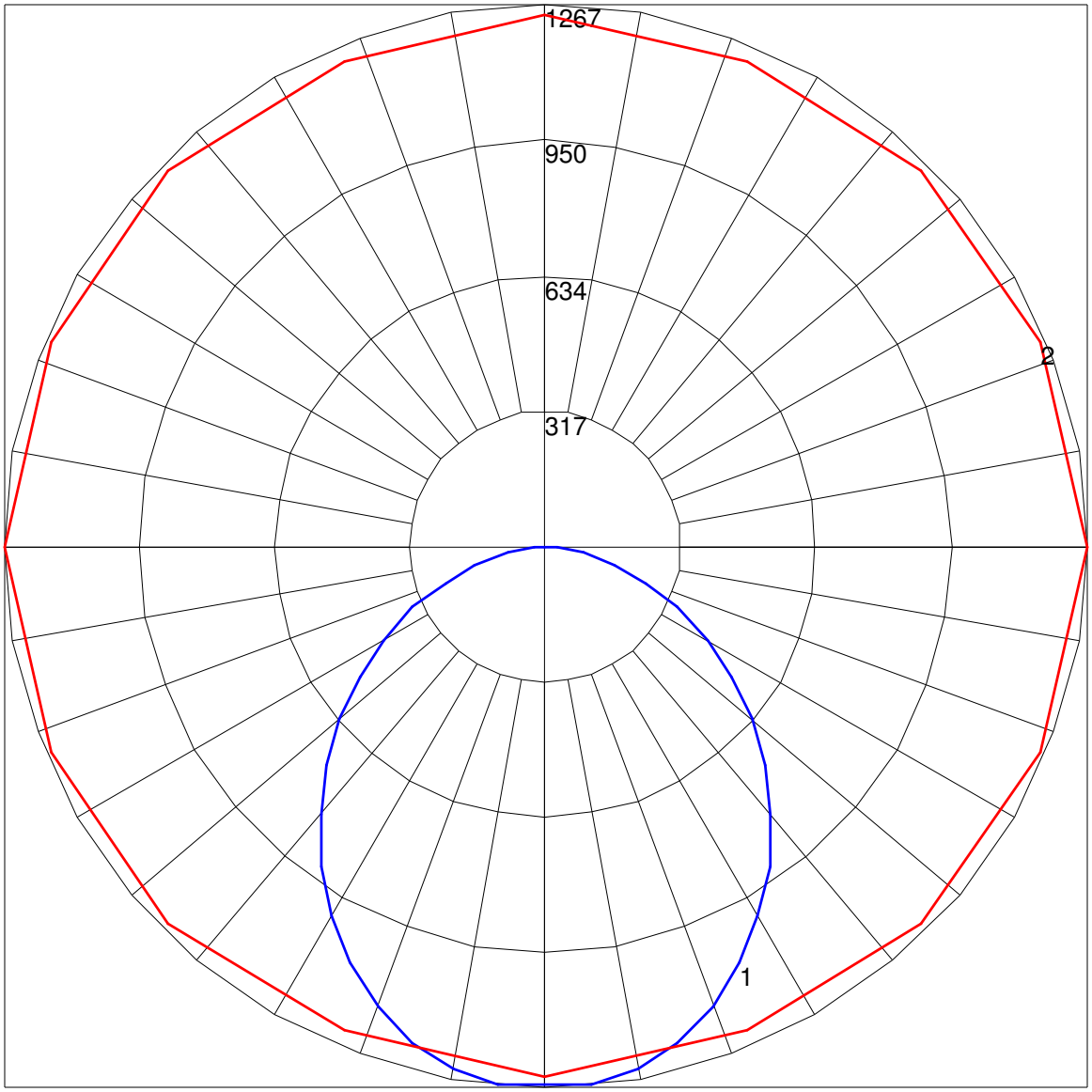
POLAR GRAPH



Maximum Candela = 1267.286 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.)