



IES INDOOR REPORT
PHOTOMETRIC FILENAME : GLN-4-P77-840-POEX.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM BALLABS TEST NO. 18633.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUE DATE] 22-JAN-2015
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4-72 LED 22"ARRAYS 4'SUSPENDED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] EVERLINE LED DRIVER #D21CC80UNVTZ-D
[LUMCAT] GLN-4-P77-840-POEx
[LAMPCAT] HLM 80 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7731
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	159
Total Luminaire Watts	48.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.65 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11634	11699	11760
55	11299	11465	11476
65	10682	6035	6188
75	8466	5604	1817
85	4196	3103	3314

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2893.051	2893.051	2893.051	2893.051	2893.051
5	2839.148	2839.148	2839.148	2839.148	2839.148
10	2800.751	2806.658	2800.751	2800.751	2800.751
15	2729.865	2732.818	2728.388	2726.911	2726.911
20	2652.333	2649.379	2647.902	2643.472	2641.995
25	2541.573	2540.096	2537.142	2543.050	2546.003
30	2347.374	2345.897	2347.374	2351.804	2353.281
35	2197.478	2191.571	2200.432	2206.339	2206.339
40	2098.533	2092.626	2105.178	2111.086	2111.086
45	1976.697	1970.790	1987.773	1993.680	1998.110
50	1762.561	1762.561	1778.067	1788.405	1792.835
55	1557.286	1563.193	1580.176	1598.636	1581.653
60	1312.875	1315.090	1353.487	723.632	734.708
65	1084.710	1094.309	612.872	624.686	628.378
70	821.101	841.038	496.943	508.019	508.019
75	526.479	481.437	348.525	110.760	112.975
80	285.761	208.229	93.777	109.283	109.283
85	87.870	53.903	64.979	69.410	69.410
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1041.52	N.A.	13.50
0-30	2204.46	N.A.	28.50
0-40	3592.33	N.A.	46.50
0-60	6458.7	N.A.	83.50
0-80	7653.07	N.A.	99.00
0-90	7730.84	N.A.	100.00
10-90	7460.5	N.A.	96.50
20-40	2550.81	N.A.	33.00
20-50	4067.88	N.A.	52.60
40-70	3689.29	N.A.	47.70
60-80	1194.38	N.A.	15.40
70-80	371.46	N.A.	4.80
80-90	77.76	N.A.	1.00
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	7730.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	270.34
10-20	771.18
20-30	1162.94
30-40	1387.86
40-50	1517.07
50-60	1349.3
60-70	822.92
70-80	371.46
80-90	77.76
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

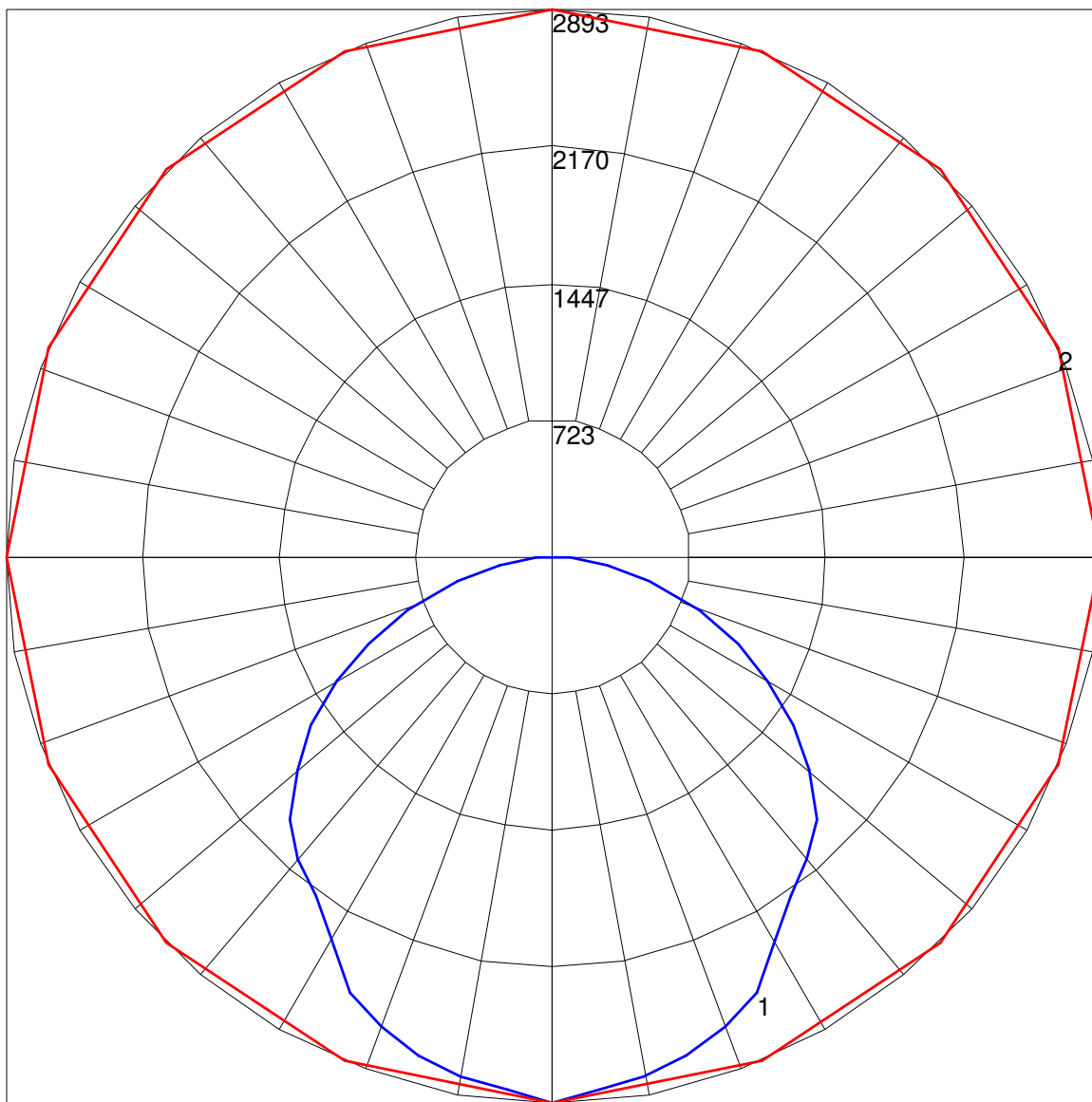
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2893.051 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.)