



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 80-4-L115-840-(L80)-WG-8014-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM BALLABS TEST NO. 18635.0
[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
[ISSUEDATE] 2024-01-11
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
[LUMINAIRE] 4'SUSPENDED INDUSTRIAL LED LUMINAIRE
[MORE] WHITE REFLECTOR w/OPEN BOTTOM
[MORE] 0-10V DIMMING DRIVER
[LUMCAT] 80-4-L115-840-(L80)-WG-8014-DIM-UNV
[LAMPCAT] HLM 80 CRI 4000K CCT
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] SUSPENDED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7715
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	54.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.88 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8369	8166	8145
55	8064	7886	7853
65	7681	7511	4015
75	6176	3431	657
85	2775	1214	911

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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	2898.900	2898.900	2898.900	2898.900	2898.900
5	2864.463	2854.623	2846.014	2857.083	2869.382
10	2806.657	2796.818	2841.094	2848.474	2820.186
15	2741.472	2769.760	2739.012	2716.873	2716.873
20	2659.068	2720.563	2633.239	2619.710	2619.710
25	2552.065	2565.594	2522.547	2515.168	2515.168
30	2415.545	2394.637	2378.648	2370.038	2367.579
35	2270.416	2249.507	2231.058	2228.599	2223.679
40	2110.527	2076.090	2066.250	2062.561	2060.101
45	1926.041	1886.683	1879.304	1876.844	1874.384
50	1710.806	1682.518	1673.909	1671.449	1671.449
55	1505.411	1474.663	1472.203	1466.054	1466.054
60	1271.728	1248.360	1245.900	1240.980	1237.290
65	1056.494	1035.585	1033.125	795.752	552.230
70	806.822	788.373	630.944	428.009	436.618
75	520.252	520.252	289.029	249.672	55.346
80	275.500	178.337	50.426	41.817	41.817
85	78.714	41.817	34.438	25.828	25.828
90	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 80-4-L115-840-(L80)-WG-8014-DIM-UNV_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1046.43	N.A.	13.60
0-30	2212.87	N.A.	28.70
0-40	3612.97	N.A.	46.80
0-60	6381.43	N.A.	82.70
0-80	7664.34	N.A.	99.30
0-90	7714.55	N.A.	100.00
10-90	7442.52	N.A.	96.50
20-40	2566.53	N.A.	33.30
20-50	4019.91	N.A.	52.10
40-70	3683.22	N.A.	47.70
60-80	1282.91	N.A.	16.60
70-80	368.15	N.A.	4.80
80-90	50.21	N.A.	0.70
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	7714.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	272.03
10-20	774.40
20-30	1166.44
30-40	1400.09
40-50	1453.38
50-60	1315.08
60-70	914.77
70-80	368.15
80-90	50.21
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	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	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	56	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	41	39
7	66	53	44	38	64	52	43	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	33	27	39	32	27	38	32	27	37	31	27	25

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	19.6	21.2	20.0	21.5	21.8	19.5	21.1	19.9	21.5	21.8
	3H	21.5	22.9	21.9	23.3	23.6	20.2	21.7	20.6	22.0	22.4
	4H	22.1	23.5	22.5	23.8	24.2	20.3	21.6	20.7	22.0	22.4
	6H	22.5	23.7	22.9	24.1	24.5	20.2	21.5	20.6	21.9	22.2
	8H	22.5	23.7	23.0	24.1	24.5	20.2	21.4	20.6	21.8	22.2
	12H	22.6	23.7	23.0	24.1	24.5	20.2	21.3	20.6	21.7	22.1

UGR Viewed Endwise

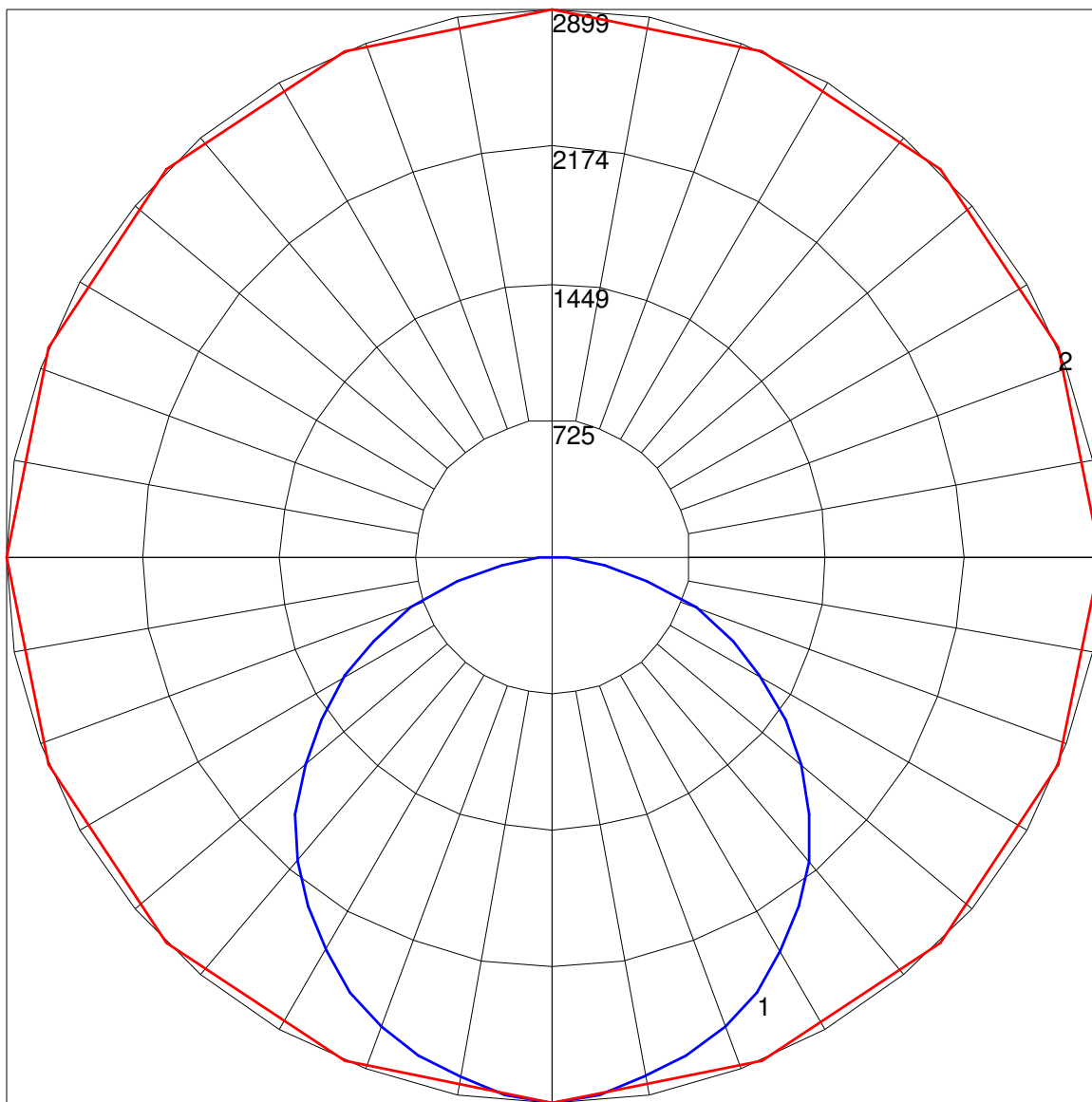
4H	2H	20.3	21.6	20.7	22.0	22.4	20.2	21.6	20.6	21.9	22.3
	3H	22.3	23.4	22.7	23.8	24.2	21.0	22.2	21.5	22.6	23.0
	4H	23.0	24.0	23.4	24.4	24.9	21.2	22.2	21.6	22.6	23.0
	6H	23.4	24.3	23.9	24.7	25.2	21.1	22.0	21.6	22.5	22.9
	8H	23.5	24.3	24.0	24.8	25.2	21.1	22.0	21.6	22.4	22.9
	12H	23.6	24.3	24.0	24.8	25.2	21.1	21.8	21.6	22.3	22.8

8H	4H	23.1	23.9	23.5	24.3	24.8	21.3	22.2	21.8	22.6	23.1
	6H	23.5	24.1	24.0	24.6	25.1	21.3	22.0	21.8	22.5	23.0
	8H	23.6	24.2	24.1	24.7	25.2	21.3	21.9	21.8	22.4	22.9
	12H	23.6	24.2	24.1	24.7	25.2	21.3	21.8	21.8	22.3	22.9

12H	4H	23.0	23.8	23.5	24.2	24.7	21.3	22.1	21.8	22.5	23.0
	6H	23.5	24.1	24.0	24.5	25.1	21.3	21.9	21.9	22.4	22.9
	8H	23.6	24.1	24.1	24.6	25.2	21.3	21.8	21.8	22.3	22.9

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 2898.9 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.)