



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LL6G-4-L34-835-SWF-AF125-EM10W-DIM-UNV_(EMER MODE).IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 17249.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 06-12-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO. 64836

[LUMINAIRE] 4' LED TROFFER

[MORE] WITH FROSTED ACRYLIC LENS

[LUMCAT] LL6G-4-L34-835-SWF-AF125-EM10W-DIM-UNV

[LAMPCAT] HLM 80 CRI, 3500K CCT

[_SEARCH_SOURCETYPE]LED

[_SEARCH_APPLICATION]INDOOR,OFFICE,CLASSROOM,ARCHITECTURAL,DIRECT,LINEAR

[_SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1060
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	10
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.12
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.18
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.84 ft
Luminous Width (90-270)	0.34 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3039	2735	2479
55	2557	2259	2025
65	2158	1903	1707
75	1747	1521	1379
85	1459	1262	1178

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	516.472	516.472	516.472	516.472	516.472
5	513.466	513.165	512.263	511.662	511.662
10	499.938	498.434	495.729	493.925	492.422
15	478.293	476.188	471.078	467.470	465.065
20	456.948	453.341	444.623	435.905	431.997
25	414.560	410.051	399.529	388.105	383.897
30	380.890	374.577	359.546	345.116	339.404
35	342.711	334.895	318.962	303.630	296.415
40	299.121	291.305	274.770	257.935	252.223
45	264.248	255.530	237.793	221.560	215.547
50	220.057	212.541	196.007	181.877	176.166
55	180.374	173.761	159.331	147.606	142.796
60	143.398	137.686	126.563	116.642	113.335
65	112.133	108.525	98.905	91.089	88.684
70	82.371	79.064	71.849	67.039	64.935
75	55.615	53.210	48.400	45.695	43.891
80	33.369	32.167	29.461	27.357	26.756
85	15.632	14.731	13.528	13.227	12.626
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	181.28	N.A.	17.10
0-30	365.85	N.A.	34.50
0-40	564.99	N.A.	53.30
0-60	892.47	N.A.	84.20
0-80	1044.46	N.A.	98.50
0-90	1060.13	N.A.	100.00
10-90	1011.75	N.A.	95.40
20-40	383.70	N.A.	36.20
20-50	566.87	N.A.	53.50
40-70	426.39	N.A.	40.20
60-80	151.98	N.A.	14.30
70-80	53.08	N.A.	5.00
80-90	15.67	N.A.	1.50
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	1060.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.38
10-20	132.91
20-30	184.56
30-40	199.14
40-50	183.17
50-60	144.32
60-70	98.91
70-80	53.08
80-90	15.67
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	102	98	107	103	100	96	99	96	93	95	93	91	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66	73	69	65	63
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	67	55	47	41	53	46	41	52	45	41	50	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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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	14.9	16.4	15.3	16.8	17.1	13.7	15.2	14.0	15.5	15.8
	3H	16.5	17.9	16.8	18.2	18.5	15.2	16.6	15.6	16.9	17.2
	4H	17.0	18.3	17.4	18.7	19.1	15.7	17.0	16.1	17.4	17.7
	6H	17.5	18.6	17.9	19.0	19.4	16.1	17.3	16.5	17.7	18.1
	8H	17.6	18.7	18.0	19.1	19.5	16.3	17.4	16.7	17.8	18.2
	12H	17.7	18.8	18.1	19.2	19.6	16.3	17.4	16.8	17.8	18.3

UGR Viewed Endwise

4H	2H	15.3	16.6	15.7	17.0	17.3	14.3	15.6	14.7	16.0	16.4
	3H	17.1	18.2	17.5	18.6	19.0	16.0	17.1	16.4	17.5	17.9
	4H	17.8	18.8	18.2	19.2	19.6	16.7	17.6	17.1	18.1	18.5
	6H	18.3	19.2	18.8	19.6	20.1	17.2	18.0	17.6	18.5	18.9
	8H	18.5	19.3	19.0	19.8	20.2	17.4	18.2	17.8	18.6	19.1
	12H	18.7	19.4	19.2	19.9	20.4	17.5	18.2	18.0	18.7	19.2

8H	4H	18.0	18.8	18.5	19.2	19.7	17.0	17.8	17.4	18.2	18.7
	6H	18.6	19.3	19.1	19.8	20.3	17.6	18.3	18.1	18.8	19.2
	8H	18.9	19.5	19.4	20.0	20.5	17.9	18.5	18.4	19.0	19.5
	12H	19.2	19.7	19.7	20.2	20.7	18.1	18.6	18.6	19.1	19.7

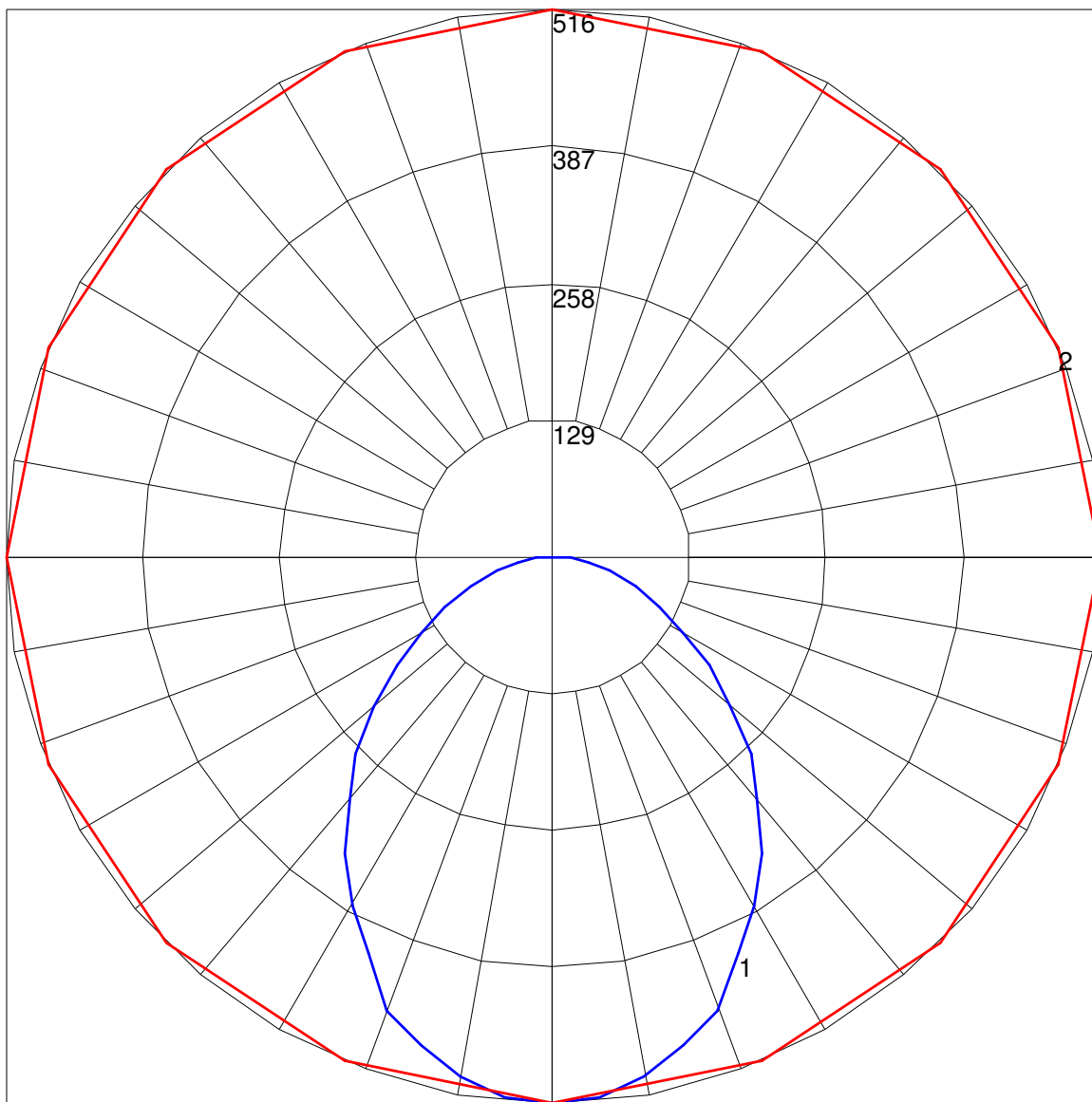
12H	4H	18.0	18.7	18.5	19.2	19.7	17.0	17.7	17.5	18.2	18.7
	6H	18.7	19.3	19.2	19.7	20.3	17.7	18.3	18.2	18.7	19.3
	8H	19.0	19.5	19.5	20.0	20.6	18.0	18.5	18.5	19.0	19.6

Maximum UGR = 20.7

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POLAR GRAPH



Maximum Candela = 516.472 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.)