



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-1-L6-835-AF12125-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM Photopia 2014.0.1 see: [www.ltiophics.com/ies](http://www.ltiophics.com/ies)

[ISSUEDATE]

[TESTDATE] 29 May 2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 1SF-1-L6-835-AF12125-DIM-UNV

[LUMINAIRE] NOMINAL 1' LED UNDER CABINET LUMINAIRE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	5.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.01 ft
Luminous Width (90-270)	0.41 ft
Luminous Height	0.00 ft



### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4308	5394	6570
55	2994	3916	5333
65	2139	2595	3667
75	1800	1935	2380
85	2519	2567	2265

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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>
<b>0</b>	269.793	269.793	269.793	269.793	269.793
<b>10</b>	261.762	263.010	262.777	264.480	265.580
<b>20</b>	258.587	259.733	261.180	262.300	262.735
<b>30</b>	219.095	225.157	233.743	242.095	244.452
<b>40</b>	147.572	156.375	177.942	197.363	205.160
<b>50</b>	85.200	91.800	113.522	139.528	149.850
<b>60</b>	46.047	47.903	58.108	76.267	83.915
<b>70</b>	23.025	23.483	25.692	31.282	34.517
<b>80</b>	12.585	12.735	12.578	12.213	12.557
<b>90</b>	4.192	4.540	4.518	3.053	2.530

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	99.78	N.A.	16.40
0-30	214.15	N.A.	35.10
0-40	342.99	N.A.	56.20
0-60	535.88	N.A.	87.80
0-80	601.18	N.A.	98.50
0-90	610.12	N.A.	100.00
10-90	584.67	N.A.	95.80
20-40	243.21	N.A.	39.90
20-50	356.51	N.A.	58.40
40-70	237.12	N.A.	38.90
60-80	65.30	N.A.	10.70
70-80	21.07	N.A.	3.50
80-90	8.94	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	610.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	25.45
10-20	74.33
20-30	114.36
30-40	128.84
40-50	113.30
50-60	79.58
60-70	44.23
70-80	21.07
80-90	8.94
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	30	30	30	30	29	29	29	29	28	28	28	27	27	27	26	26	26	25
1	28	27	26	25	27	26	25	24	25	24	24	24	23	23	23	23	22	22
2	25	24	22	21	25	23	22	21	22	21	20	21	21	20	21	20	19	19
3	23	21	19	18	23	21	19	18	20	19	17	19	18	17	19	18	17	16
4	22	19	17	15	21	19	17	15	18	16	15	17	16	15	17	16	15	14
5	20	17	15	14	20	17	15	13	16	15	13	16	14	13	15	14	13	13
6	19	16	13	12	18	15	13	12	15	13	12	14	13	12	14	13	12	11
7	17	14	12	11	17	14	12	11	14	12	11	13	12	11	13	12	10	10
8	16	13	11	10	16	13	11	10	13	11	10	12	11	9	12	11	9	9
9	15	12	10	9	15	12	10	9	12	10	9	11	10	9	11	10	9	8
10	14	11	9	8	14	11	9	8	11	9	8	10	9	8	10	9	8	7

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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	14.2	15.7	14.6	16.0	16.3	17.5	19.0	17.9	19.3	19.6
	3H	15.3	16.6	15.7	16.9	17.3	18.4	19.8	18.8	20.1	20.4
	4H	15.8	17.0	16.2	17.4	17.7	18.7	20.0	19.1	20.3	20.7
	6H	16.2	17.4	16.6	17.7	18.1	19.0	20.1	19.4	20.5	20.9
	8H	16.4	17.5	16.9	17.9	18.3	19.0	20.1	19.5	20.5	20.9
	12H	16.7	17.7	17.1	18.1	18.5	19.1	20.2	19.6	20.5	21.0

UGR Viewed Endwise

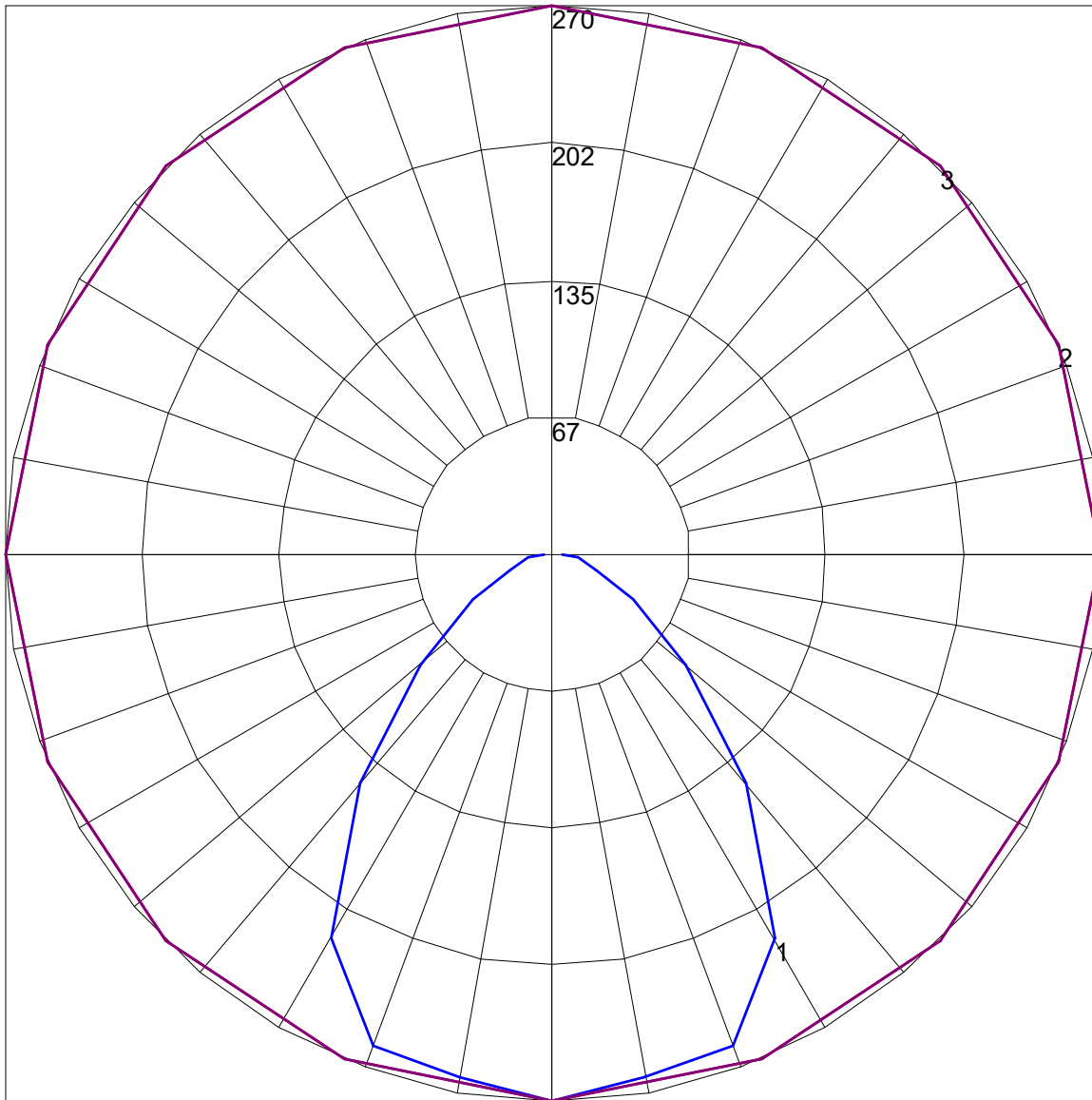
4H	2H	14.8	16.1	15.2	16.4	16.8	17.6	18.9	18.0	19.2	19.6
	3H	16.0	17.1	16.5	17.5	17.9	18.7	19.7	19.1	20.1	20.5
	4H	16.7	17.6	17.1	18.0	18.4	19.2	20.1	19.6	20.5	20.9
	6H	17.2	18.1	17.7	18.5	19.0	19.5	20.3	19.9	20.7	21.2
	8H	17.5	18.3	18.0	18.7	19.2	19.6	20.3	20.1	20.8	21.3
	12H	17.9	18.5	18.4	19.0	19.5	19.7	20.4	20.2	20.9	21.4

8H	4H	16.9	17.7	17.4	18.1	18.6	19.2	20.0	19.7	20.4	20.9
	6H	17.7	18.3	18.2	18.8	19.3	19.6	20.3	20.1	20.8	21.2
	8H	18.1	18.6	18.6	19.2	19.6	19.8	20.4	20.4	20.9	21.4
	12H	18.6	19.1	19.1	19.5	20.1	20.1	20.6	20.6	21.0	21.6

12H	4H	17.0	17.6	17.4	18.1	18.6	19.2	19.9	19.7	20.4	20.8
	6H	17.8	18.3	18.3	18.8	19.3	19.7	20.2	20.2	20.7	21.2
	8H	18.2	18.7	18.8	19.2	19.8	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 269.793 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.)  
# 3 - Horizontal Cone Through Vertical Angle (0)