



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-4-P19-835-AF12125-POE\_.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-4-P19-835-AF12125-PoE  
 [LUMINAIRE] NOMINAL 4' LED UNDER CABINET LUMINAIRE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	14.9
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)	3.86 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	3537	4429	5395
55	2459	3215	4380
65	1756	2131	3011
75	1478	1589	1955
85	2069	2108	1860

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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>	845.645	845.645	845.645	845.645	845.645
<b>10</b>	820.475	824.385	823.657	828.993	832.441
<b>20</b>	810.523	814.112	818.649	822.160	823.523
<b>30</b>	686.737	705.740	732.649	758.829	766.218
<b>40</b>	462.555	490.146	557.748	618.618	643.059
<b>50</b>	267.053	287.740	355.828	437.339	469.694
<b>60</b>	144.332	150.147	182.134	239.055	263.025
<b>70</b>	72.170	73.604	80.531	98.053	108.193
<b>80</b>	39.447	39.917	39.423	38.279	39.361
<b>90</b>	13.141	14.230	14.160	9.568	7.930

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	312.77	N.A.	16.40
0-30	671.24	N.A.	35.10
0-40	1075.09	N.A.	56.20
0-60	1679.68	N.A.	87.80
0-80	1884.36	N.A.	98.50
0-90	1912.39	N.A.	100.00
10-90	1832.61	N.A.	95.80
20-40	762.32	N.A.	39.90
20-50	1117.46	N.A.	58.40
40-70	743.23	N.A.	38.90
60-80	204.68	N.A.	10.70
70-80	66.04	N.A.	3.50
80-90	28.03	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	1912.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	79.78
10-20	232.99
20-30	358.47
30-40	403.85
40-50	355.14
50-60	249.44
60-70	138.64
70-80	66.04
80-90	28.03
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	81	81	81	81	79	79	79	79	75	75	75	72	72	72	69	69	69	68
1	75	72	69	67	73	70	68	66	68	66	64	65	63	62	63	61	60	59
2	69	64	60	56	67	63	59	56	60	57	55	58	56	53	56	54	52	51
3	63	57	52	48	62	56	51	48	54	50	47	52	49	46	51	48	45	44
4	59	51	46	42	57	50	45	41	49	44	41	47	43	40	46	43	40	39
5	54	46	41	37	53	46	40	36	44	40	36	43	39	36	42	38	35	34
6	50	42	36	32	49	41	36	32	40	36	32	39	35	32	38	34	31	30
7	47	38	33	29	46	38	33	29	37	32	29	36	32	28	35	31	28	27
8	44	35	30	26	43	35	30	26	34	29	26	33	29	26	32	28	26	24
9	41	32	27	24	40	32	27	24	31	27	23	31	26	23	30	26	23	22
10	39	30	25	22	38	30	25	22	29	25	21	28	24	21	28	24	21	20

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**UGR TABLE - CORRECTED**

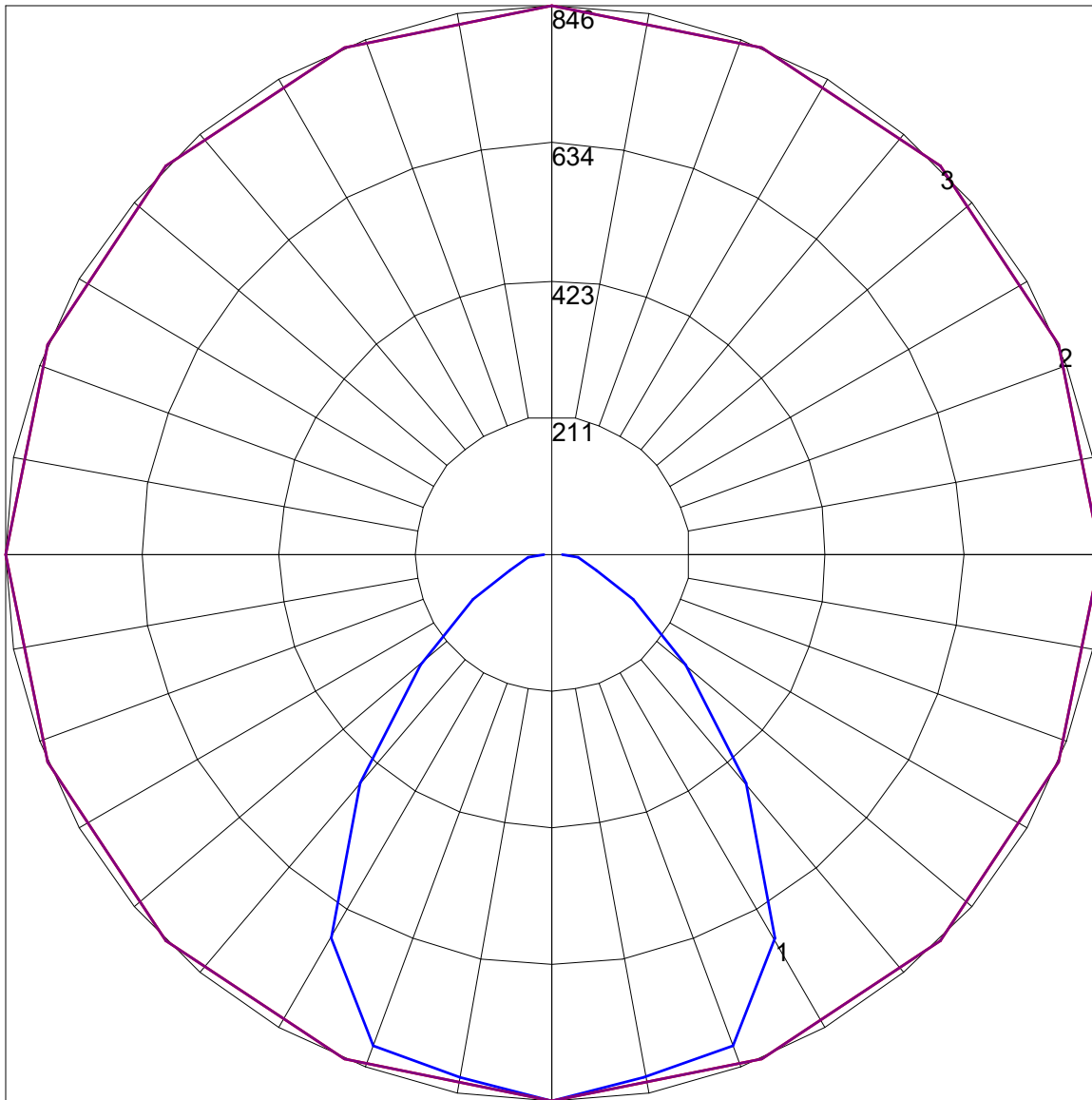
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	14.7	16.2	15.1	16.5	16.8	18.0	19.5	18.4	19.8	20.1
	3H	15.8	17.1	16.2	17.4	17.8	18.9	20.3	19.3	20.6	20.9
	4H	16.3	17.5	16.7	17.8	18.2	19.2	20.5	19.6	20.8	21.2
	6H	16.7	17.9	17.1	18.2	18.6	19.5	20.6	19.9	21.0	21.4
	8H	16.9	18.0	17.4	18.4	18.8	19.5	20.6	20.0	21.0	21.4
	12H	17.2	18.2	17.6	18.6	19.0	19.6	20.7	20.0	21.0	21.5
4H	2H	15.3	16.6	15.7	16.9	17.3	18.1	19.4	18.5	19.7	20.1
	3H	16.5	17.6	16.9	18.0	18.4	19.2	20.2	19.6	20.6	21.0
	4H	17.1	18.1	17.6	18.5	18.9	19.7	20.6	20.1	21.0	21.4
	6H	17.7	18.6	18.2	19.0	19.5	20.0	20.8	20.4	21.2	21.7
	8H	18.0	18.8	18.5	19.2	19.7	20.1	20.8	20.6	21.3	21.8
	12H	18.4	19.0	18.9	19.5	20.0	20.2	20.9	20.7	21.4	21.9
8H	4H	17.4	18.2	17.9	18.6	19.1	19.7	20.5	20.2	20.9	21.4
	6H	18.2	18.8	18.7	19.3	19.8	20.1	20.8	20.6	21.3	21.7
	8H	18.6	19.1	19.1	19.7	20.1	20.3	20.9	20.9	21.4	21.9
	12H	19.1	19.6	19.6	20.0	20.6	20.6	21.0	21.1	21.5	22.1
12H	4H	17.5	18.1	17.9	18.6	19.1	19.7	20.4	20.2	20.9	21.3
	6H	18.3	18.8	18.8	19.3	19.8	20.2	20.7	20.7	21.2	21.7
	8H	18.7	19.2	19.3	19.7	20.3	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 845.645 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)