



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-4-P28-835-AF12125-POE\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

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

[ISSUEDATE]

[TESTDATE] 29 May 2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 1SF-4-P28-835-AF12125-PoE

[LUMINAIRE] NOMINAL 4' LED UNDER CABINET LUMINAIRE

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	23.2
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	5215	6531	7954
55	3625	4741	6457
65	2589	3142	4440
75	2180	2343	2882
85	3050	3108	2743

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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>	1246.795	1246.795	1246.795	1246.795	1246.795
<b>10</b>	1209.686	1215.451	1214.377	1222.245	1227.328
<b>20</b>	1195.014	1200.305	1206.994	1212.170	1214.180
<b>30</b>	1012.506	1040.523	1080.197	1118.797	1129.691
<b>40</b>	681.979	722.658	822.328	912.074	948.108
<b>50</b>	393.736	424.236	524.623	644.800	692.504
<b>60</b>	212.800	221.372	268.533	352.456	387.797
<b>70</b>	106.406	108.520	118.733	144.566	159.516
<b>80</b>	58.159	58.852	58.125	56.438	58.032
<b>90</b>	19.375	20.981	20.877	14.107	11.692

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	461.14	N.A.	16.40
0-30	989.65	N.A.	35.10
0-40	1585.08	N.A.	56.20
0-60	2476.47	N.A.	87.80
0-80	2778.24	N.A.	98.50
0-90	2819.57	N.A.	100.00
10-90	2701.95	N.A.	95.80
20-40	1123.95	N.A.	39.90
20-50	1647.56	N.A.	58.40
40-70	1095.79	N.A.	38.90
60-80	301.78	N.A.	10.70
70-80	97.37	N.A.	3.50
80-90	41.33	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	2819.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	117.62
10-20	343.51
20-30	528.52
30-40	595.43
40-50	523.61
50-60	367.77
60-70	204.41
70-80	97.37
80-90	41.33
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	138	138	138	138	135	135	135	135	129	129	129	123	123	123	118	118	118	116
1	128	123	118	115	125	120	116	113	115	112	109	111	108	106	107	105	103	100
2	118	109	102	96	115	107	101	95	103	98	93	99	95	91	96	92	89	87
3	108	97	89	82	106	96	88	82	92	86	80	89	84	79	86	82	78	75
4	100	88	78	71	98	86	77	71	83	76	70	81	74	69	78	73	68	66
5	93	79	70	62	90	78	69	62	75	68	62	73	66	61	71	65	60	58
6	86	72	62	55	84	71	62	55	69	61	55	67	60	54	65	59	54	52
7	80	65	56	49	78	65	56	49	63	55	49	61	54	49	60	53	48	46
8	75	60	51	45	73	59	51	44	58	50	44	56	49	44	55	49	44	42
9	70	55	46	40	68	55	46	40	53	46	40	52	45	40	51	45	40	38
10	66	51	43	37	64	51	42	37	50	42	37	49	41	36	48	41	36	34

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**UGR TABLE - CORRECTED**

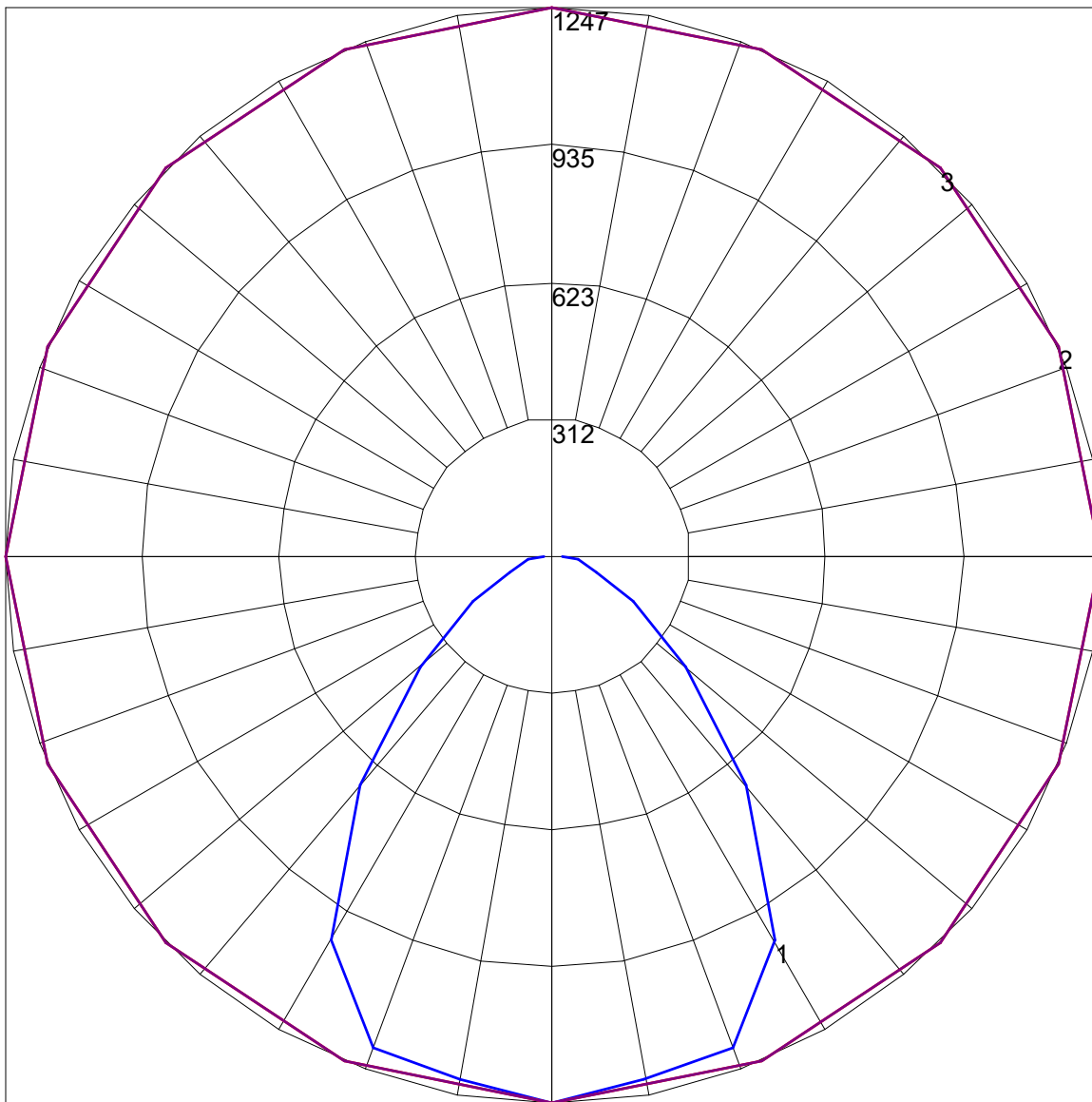
Reflectances

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	14.2	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
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 = 1246.795 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)