



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-4-L24-835-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

[ISSUEDATE]

[TESTDATE] 29 May 2020

[TEST] 1SF-4-L24-835-AF12125

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 1SF-4-L24-835-AF12125-DIM-UNV

[LUMINAIRE] NOMINAL 4' LED UNDER CABINET LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	20.8
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	4505	5641	6871
55	3131	4095	5577
65	2237	2714	3835
75	1883	2024	2489
85	2634	2684	2369

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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	1076.959	1076.959	1076.959	1076.959	1076.959
10	1044.904	1049.884	1048.956	1055.752	1060.143
20	1032.230	1036.801	1042.579	1047.050	1048.786
30	874.584	898.784	933.054	966.396	975.806
40	589.080	624.218	710.311	787.832	818.958
50	340.102	366.448	453.159	556.966	598.172
60	183.813	191.217	231.954	304.445	334.972
70	91.911	93.738	102.559	124.874	137.787
80	50.237	50.836	50.207	48.750	50.127
90	16.736	18.123	18.033	12.185	10.099

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	398.32	N.A.	16.40
0-30	854.84	N.A.	35.10
0-40	1369.17	N.A.	56.20
0-60	2139.13	N.A.	87.80
0-80	2399.79	N.A.	98.50
0-90	2435.49	N.A.	100.00
10-90	2333.89	N.A.	95.80
20-40	970.84	N.A.	39.90
20-50	1423.13	N.A.	58.40
40-70	946.53	N.A.	38.90
60-80	260.67	N.A.	10.70
70-80	84.10	N.A.	3.50
80-90	35.70	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	2435.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.60
10-20	296.72
20-30	456.52
30-40	514.32
40-50	452.28
50-60	317.68
60-70	176.57
70-80	84.10
80-90	35.70
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	159	159	159	159	156	156	156	156	149	149	149	142	142	142	136	136	136	134
1	147	142	137	132	144	139	134	130	133	130	126	128	125	122	123	121	119	116
2	136	126	118	111	132	124	116	110	119	113	107	115	110	105	111	107	103	100
3	125	113	103	95	122	111	102	94	107	99	93	103	97	91	100	94	90	87
4	116	101	90	82	113	99	89	82	96	88	81	93	86	80	90	84	79	76
5	107	91	80	72	104	90	80	72	87	78	71	85	77	70	82	75	70	67
6	99	83	72	64	97	82	71	64	79	70	63	77	69	63	75	68	62	60
7	92	76	65	57	90	75	64	57	73	63	57	71	62	56	69	61	56	53
8	86	69	59	51	84	69	58	51	67	58	51	65	57	51	64	56	50	48
9	81	64	54	47	79	63	53	46	62	53	46	60	52	46	59	51	46	44
10	76	59	49	43	74	59	49	42	57	48	42	56	48	42	55	47	42	40

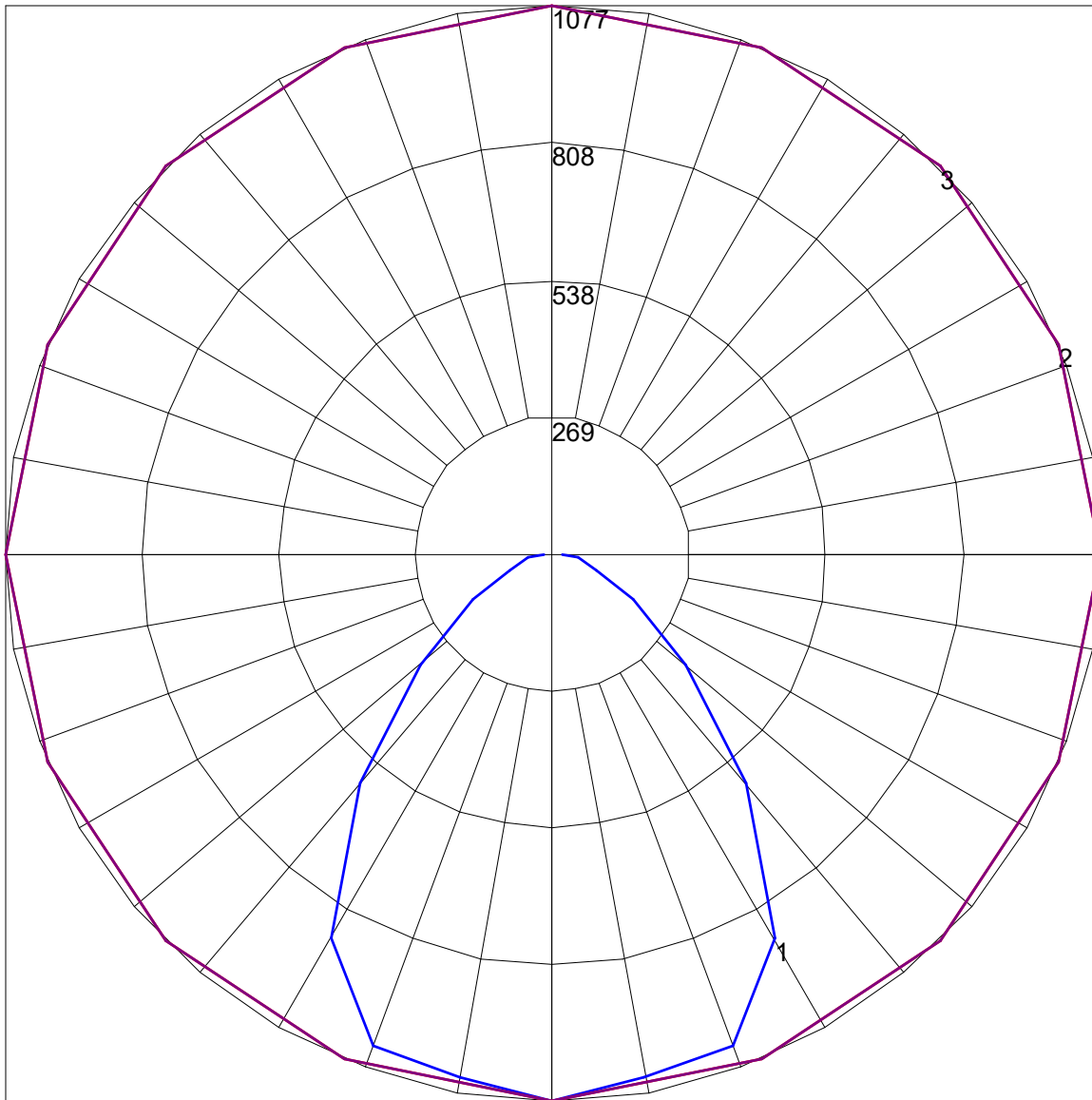
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UGR TABLE - CORRECTED

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	13.2	14.7	13.6	15.0	15.3	16.5	18.0	16.9	18.3	18.6
	3H	14.3	15.6	14.7	15.9	16.3	17.4	18.8	17.8	19.1	19.4
	4H	14.8	16.0	15.2	16.4	16.7	17.7	19.0	18.1	19.3	19.7
	6H	15.2	16.4	15.6	16.7	17.1	18.0	19.1	18.4	19.5	19.9
	8H	15.4	16.5	15.9	16.9	17.3	18.0	19.1	18.5	19.5	19.9
	12H	15.7	16.7	16.1	17.1	17.5	18.1	19.2	18.6	19.5	20.0
4H	2H	13.8	15.1	14.2	15.4	15.8	16.6	17.9	17.0	18.2	18.6
	3H	15.0	16.1	15.5	16.5	16.9	17.7	18.7	18.1	19.1	19.5
	4H	15.7	16.6	16.1	17.0	17.4	18.2	19.1	18.6	19.5	19.9
	6H	16.2	17.1	16.7	17.5	18.0	18.5	19.3	18.9	19.7	20.2
	8H	16.5	17.3	17.0	17.7	18.2	18.6	19.3	19.1	19.8	20.3
	12H	16.9	17.5	17.4	18.0	18.5	18.7	19.4	19.2	19.9	20.4
8H	4H	15.9	16.7	16.4	17.1	17.6	18.2	19.0	18.7	19.4	19.9
	6H	16.7	17.3	17.2	17.8	18.3	18.6	19.3	19.1	19.8	20.2
	8H	17.1	17.6	17.6	18.2	18.6	18.8	19.4	19.4	19.9	20.4
	12H	17.6	18.1	18.1	18.5	19.1	19.1	19.6	19.6	20.0	20.6
12H	4H	16.0	16.6	16.4	17.1	17.6	18.2	18.9	18.7	19.4	19.8
	6H	16.8	17.3	17.3	17.8	18.3	18.7	19.2	19.2	19.7	20.2
	8H	17.2	17.7	17.8	18.2	18.8	18.9	19.4	19.4	19.9	20.5

Maximum UGR = 20.6

POLAR GRAPH



Maximum Candela = 1076.959 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)