



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-4-L24-840-AF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GENERATED FROM Photopia 2014.0.1 see: www.ltiopics.com/ies
 [ISSUEDATE] 05-13-2020
 [TESTDATE] Thu Aug 07 08:12:46 2014
 [TEST] 1SF-4-L24-835-AF12125
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 1SF-4-L24-840-AF12125-DIM-UNV
 [LUMINAIRE] 4' LED UNDER CABINET LUMINAIRE
 [LAMP] 22" 32 LED linear LED module 3500K
 [LAMPCAT] HLM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2509
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	21.4
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	4640	5810	7077
55	3225	4218	5745
65	2304	2795	3950
75	1939	2084	2564
85	2713	2765	2440

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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	1109.245	1109.245	1109.245	1109.245	1109.245
10	1076.230	1081.359	1080.403	1087.403	1091.926
20	1063.176	1067.884	1073.835	1078.440	1080.229
30	900.804	925.730	961.027	995.368	1005.061
40	606.741	642.932	731.606	811.451	843.510
50	350.298	377.433	466.745	573.664	616.105
60	189.323	196.950	238.908	313.572	345.015
70	94.667	96.548	105.634	128.617	141.918
80	51.743	52.360	51.712	50.211	51.630
90	17.237	18.666	18.574	12.550	10.402

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	410.26	N.A.	16.40
0-30	880.47	N.A.	35.10
0-40	1410.21	N.A.	56.20
0-60	2203.26	N.A.	87.80
0-80	2471.74	N.A.	98.50
0-90	2508.51	N.A.	100.00
10-90	2403.86	N.A.	95.80
20-40	999.95	N.A.	39.90
20-50	1465.79	N.A.	58.40
40-70	974.90	N.A.	38.90
60-80	268.48	N.A.	10.70
70-80	86.62	N.A.	3.50
80-90	36.77	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	2508.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	104.65
10-20	305.62
20-30	470.21
30-40	529.74
40-50	465.84
50-60	327.20
60-70	181.86
70-80	86.62
80-90	36.77
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	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	76	68	62	84	74	67	61	72	65	60	70	64	60	68	63	59	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

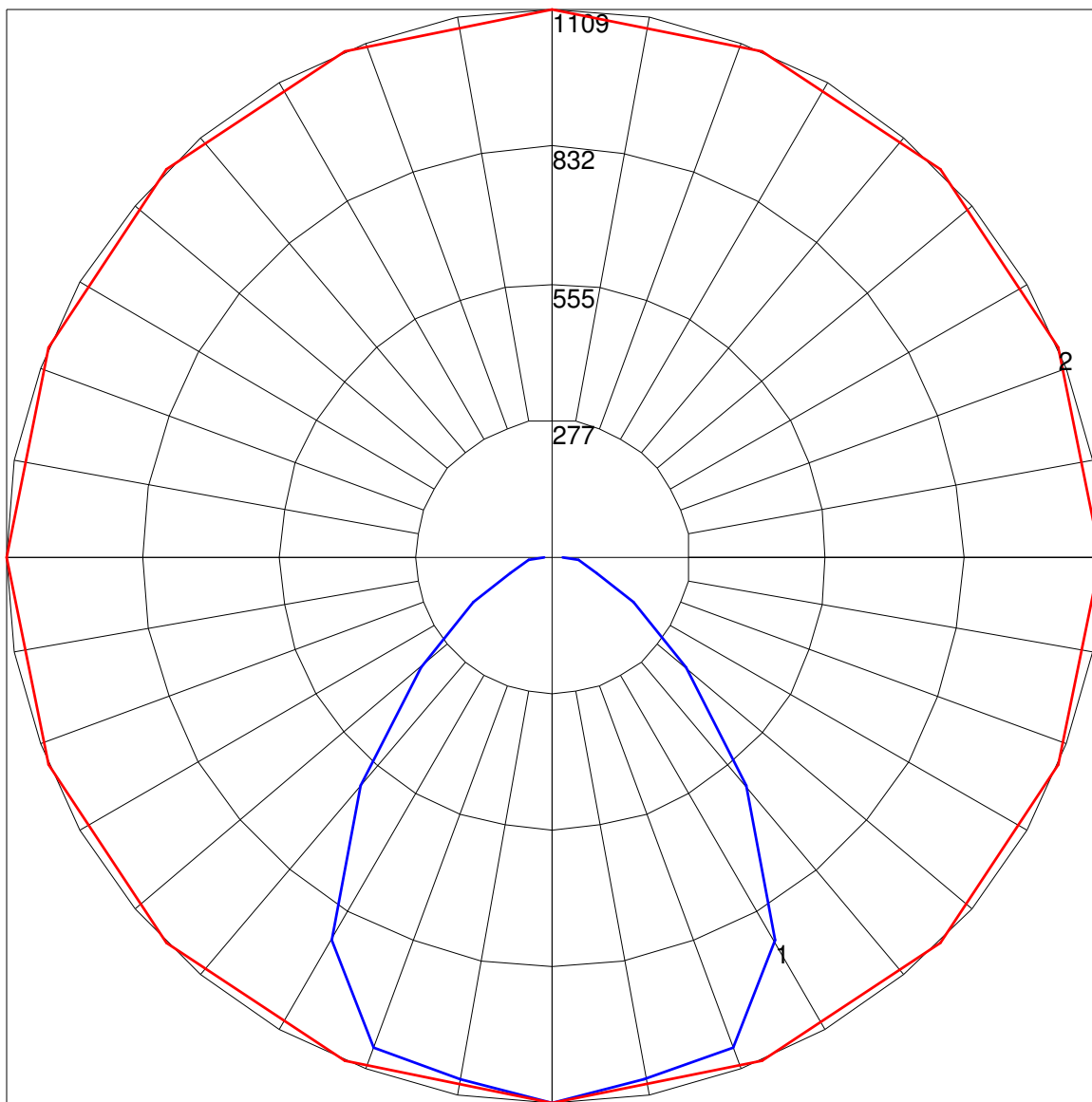
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UGR TABLE - CORRECTED

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	14.3	15.8	14.7	16.1	16.4	17.6	19.1	18.0	19.4	19.7
	3H	15.4	16.7	15.8	17.0	17.4	18.5	19.9	18.9	20.2	20.5
	4H	15.9	17.1	16.3	17.5	17.8	18.8	20.1	19.2	20.4	20.8
	6H	16.3	17.5	16.7	17.8	18.2	19.1	20.2	19.5	20.6	21.0
	8H	16.5	17.6	17.0	18.0	18.4	19.1	20.2	19.6	20.6	21.0
	12H	16.8	17.8	17.2	18.2	18.6	19.2	20.3	19.6	20.6	21.1
4H	2H	14.9	16.2	15.3	16.5	16.9	17.7	19.0	18.1	19.3	19.7
	3H	16.1	17.2	16.5	17.6	18.0	18.8	19.8	19.2	20.2	20.6
	4H	16.8	17.7	17.2	18.1	18.5	19.3	20.2	19.7	20.6	21.0
	6H	17.3	18.2	17.8	18.6	19.1	19.6	20.4	20.0	20.8	21.3
	8H	17.6	18.4	18.1	18.8	19.3	19.7	20.4	20.2	20.9	21.4
	12H	18.0	18.6	18.5	19.1	19.6	19.8	20.5	20.3	21.0	21.5
8H	4H	17.0	17.8	17.5	18.2	18.7	19.3	20.1	19.8	20.5	21.0
	6H	17.8	18.4	18.3	18.9	19.4	19.7	20.4	20.2	20.9	21.3
	8H	18.2	18.7	18.7	19.3	19.7	19.9	20.5	20.5	21.0	21.5
	12H	18.7	19.2	19.2	19.6	20.2	20.2	20.7	20.7	21.1	21.7
12H	4H	17.1	17.7	17.5	18.2	18.7	19.3	20.0	19.8	20.5	20.9
	6H	17.9	18.4	18.4	18.9	19.4	19.8	20.3	20.3	20.8	21.3
	8H	18.3	18.8	18.9	19.3	19.9	20.0	20.5	20.5	21.0	21.6

Maximum UGR = 21.7

POLAR GRAPH



Maximum Candela = 1109.245 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.)