



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-1-L6-840-AF12125-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN FROM Photopia 2014.0.1 see: www.ltioptics.com/ies
 [ISSUEDATE]
 [TESTDATE] 08-09-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 1' LED UNDERCABINET LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 1SF-1-L6-840-AF12125-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	628
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	4437	5556	6767
55	3084	4033	5493
65	2203	2673	3777
75	1854	1993	2451
85	2595	2644	2333

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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	277.886	277.886	277.886	277.886	277.886
10	269.615	270.900	270.661	272.414	273.547
20	266.345	267.524	269.015	270.169	270.617
30	225.668	231.912	240.755	249.358	251.786
40	152.000	161.066	183.281	203.283	211.315
50	87.756	94.554	116.928	143.713	154.345
60	47.429	49.340	59.851	78.556	86.432
70	23.716	24.187	26.463	32.221	35.553
80	12.963	13.117	12.955	12.579	12.934
90	4.318	4.676	4.653	3.144	2.606

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	102.78	N.A.	16.40
0-30	220.57	N.A.	35.10
0-40	353.28	N.A.	56.20
0-60	551.96	N.A.	87.80
0-80	619.22	N.A.	98.50
0-90	628.43	N.A.	100.00
10-90	602.21	N.A.	95.80
20-40	250.51	N.A.	39.90
20-50	367.21	N.A.	58.40
40-70	244.23	N.A.	38.90
60-80	67.26	N.A.	10.70
70-80	21.70	N.A.	3.50
80-90	9.21	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	628.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	26.22
10-20	76.56
20-30	117.80
30-40	132.71
40-50	116.70
50-60	81.97
60-70	45.56
70-80	21.70
80-90	9.21
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	94	91	92	90	89	87
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75
3	94	84	77	71	91	83	76	71	80	74	69	77	72	68	75	71	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	45
7	69	57	48	43	68	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	43	38	48	42	38	36
9	61	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

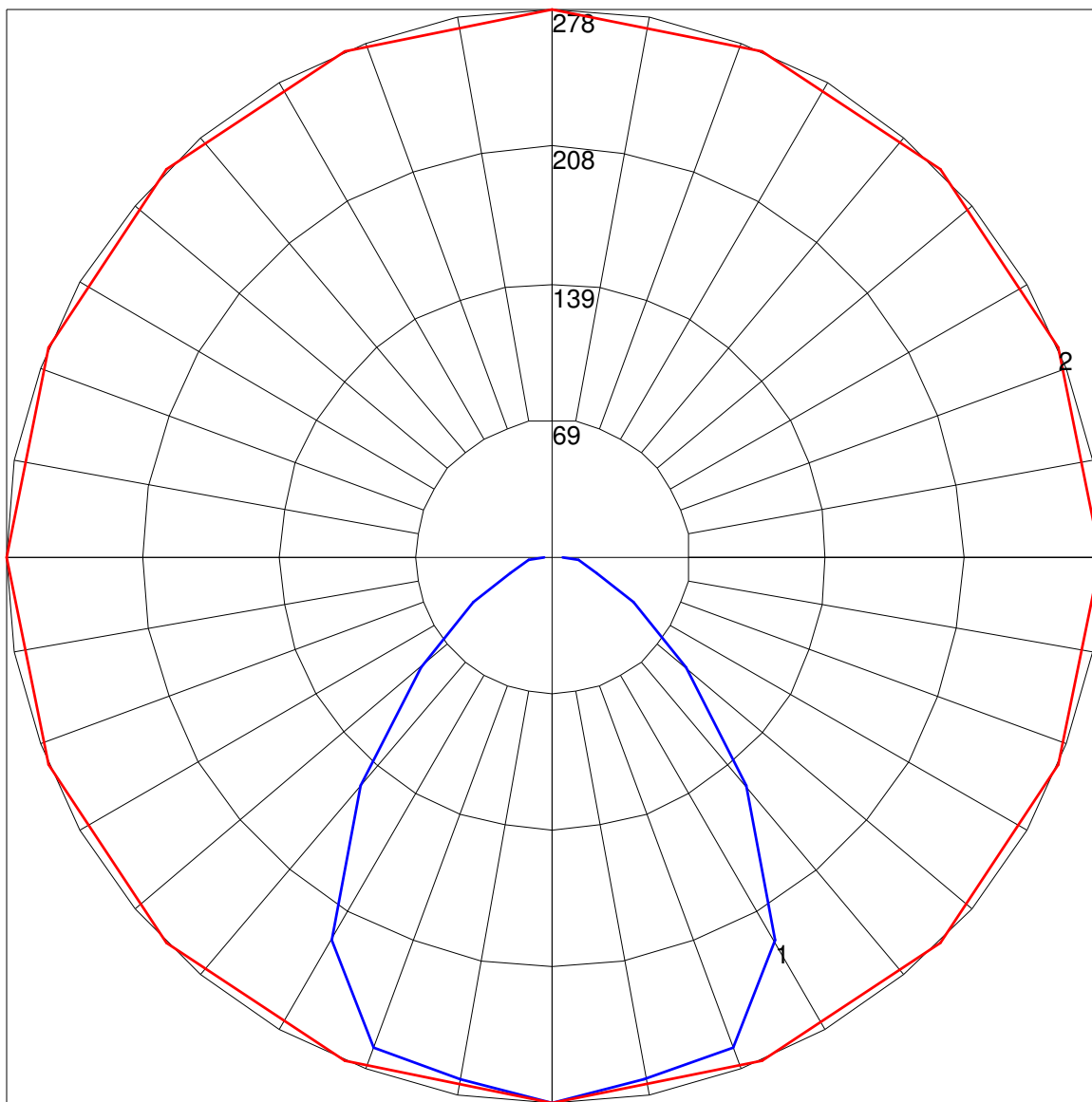
X=2H	Y=2H	14.2	15.7	14.5	16.0	16.3	17.5	19.0	17.8	19.3	19.6
	3H	15.2	16.6	15.6	16.9	17.3	18.4	19.7	18.8	20.0	20.4
	4H	15.7	17.0	16.1	17.3	17.7	18.7	19.9	19.1	20.3	20.7
	6H	16.2	17.3	16.6	17.7	18.1	18.9	20.1	19.3	20.4	20.8
	8H	16.4	17.5	16.8	17.9	18.3	19.0	20.1	19.4	20.5	20.9
	12H	16.6	17.7	17.1	18.1	18.5	19.1	20.1	19.5	20.5	20.9

UGR Viewed Endwise

4H	2H	14.8	16.0	15.2	16.4	16.7	17.6	18.8	18.0	19.2	19.6
	3H	16.0	17.0	16.4	17.4	17.8	18.7	19.7	19.1	20.1	20.5
	4H	16.6	17.5	17.0	17.9	18.4	19.1	20.0	19.5	20.4	20.9
	6H	17.2	18.0	17.7	18.5	18.9	19.4	20.2	19.9	20.7	21.1
	8H	17.5	18.2	18.0	18.7	19.2	19.6	20.3	20.0	20.7	21.2
	12H	17.8	18.5	18.3	19.0	19.4	19.7	20.4	20.2	20.8	21.3
8H	4H	16.9	17.6	17.3	18.1	18.5	19.2	19.9	19.6	20.4	20.8
	6H	17.6	18.3	18.1	18.8	19.2	19.6	20.2	20.1	20.7	21.2
	8H	18.1	18.6	18.6	19.1	19.6	19.8	20.3	20.3	20.9	21.3
	12H	18.5	19.0	19.0	19.5	20.1	20.0	20.5	20.5	21.0	21.6
12H	4H	16.9	17.6	17.4	18.1	18.5	19.2	19.8	19.7	20.3	20.8
	6H	17.7	18.3	18.3	18.7	19.3	19.6	20.2	20.2	20.6	21.2
	8H	18.2	18.7	18.7	19.2	19.8	19.9	20.4	20.4	20.9	21.4

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 277.886 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.)