



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-2-L12-840-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN FROM Photopia 2017.2.0 see: www.ltiopics.com/ies
 [ISSUE DATE] 02-23-2021
 [TEST DATE] Wed Mar 27 13:58:07 2019
 [TEST] 1SF-2
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 1SF-2-L12-840-DMA-DIM-UNV
 [LUMINAIRE] 2' UNDERCABINET LUMINAIRE
 [LAMP] LED 22.6W 22" 56 LED linear LED module 3000K
 [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	1283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	11.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.10
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.41 ft
Luminous Width (90-270)	1.80 ft
Luminous Height	0.10 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4585	4977	6083
55	3524	3888	5152
65	2487	2820	4126
75	1477	1762	2940
85	644	805	1933

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	576.569	576.569	576.569	576.569	576.569	576.569	576.569	576.569	576.569
10	553.450	553.000	550.802	550.722	565.172	562.017	562.793	548.481	578.158
20	490.727	497.402	502.172	502.424	511.697	513.382	506.012	504.654	494.573
30	417.181	417.662	430.096	442.525	449.847	442.948	441.985	436.225	429.867
40	321.788	322.707	338.490	350.480	356.336	353.330	345.993	345.431	336.516
50	227.630	229.063	242.171	258.504	261.151	263.531	253.862	243.337	243.594
60	143.788	145.045	153.479	165.672	172.571	168.747	164.341	159.271	158.030
70	74.525	78.745	82.729	88.034	92.778	93.468	91.521	87.393	83.895
80	25.189	27.799	28.650	30.890	32.137	32.484	33.570	32.987	33.912
90	3.925	4.198	4.145	4.300	5.321	6.279	6.386	7.081	7.300

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	204.52	N.A.	15.90
0-30	421.93	N.A.	32.90
0-40	666.40	N.A.	51.90
0-60	1078.51	N.A.	84.10
0-80	1263.25	N.A.	98.50
0-90	1283.12	N.A.	100.00
10-90	1229.00	N.A.	95.80
20-40	461.88	N.A.	36.00
20-50	690.79	N.A.	53.80
40-70	534.57	N.A.	41.70
60-80	184.74	N.A.	14.40
70-80	62.28	N.A.	4.90
80-90	19.87	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	1283.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	54.12
10-20	150.40
20-30	217.41
30-40	244.48
40-50	228.90
50-60	183.20
60-70	122.46
70-80	62.28
80-90	19.87
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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

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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

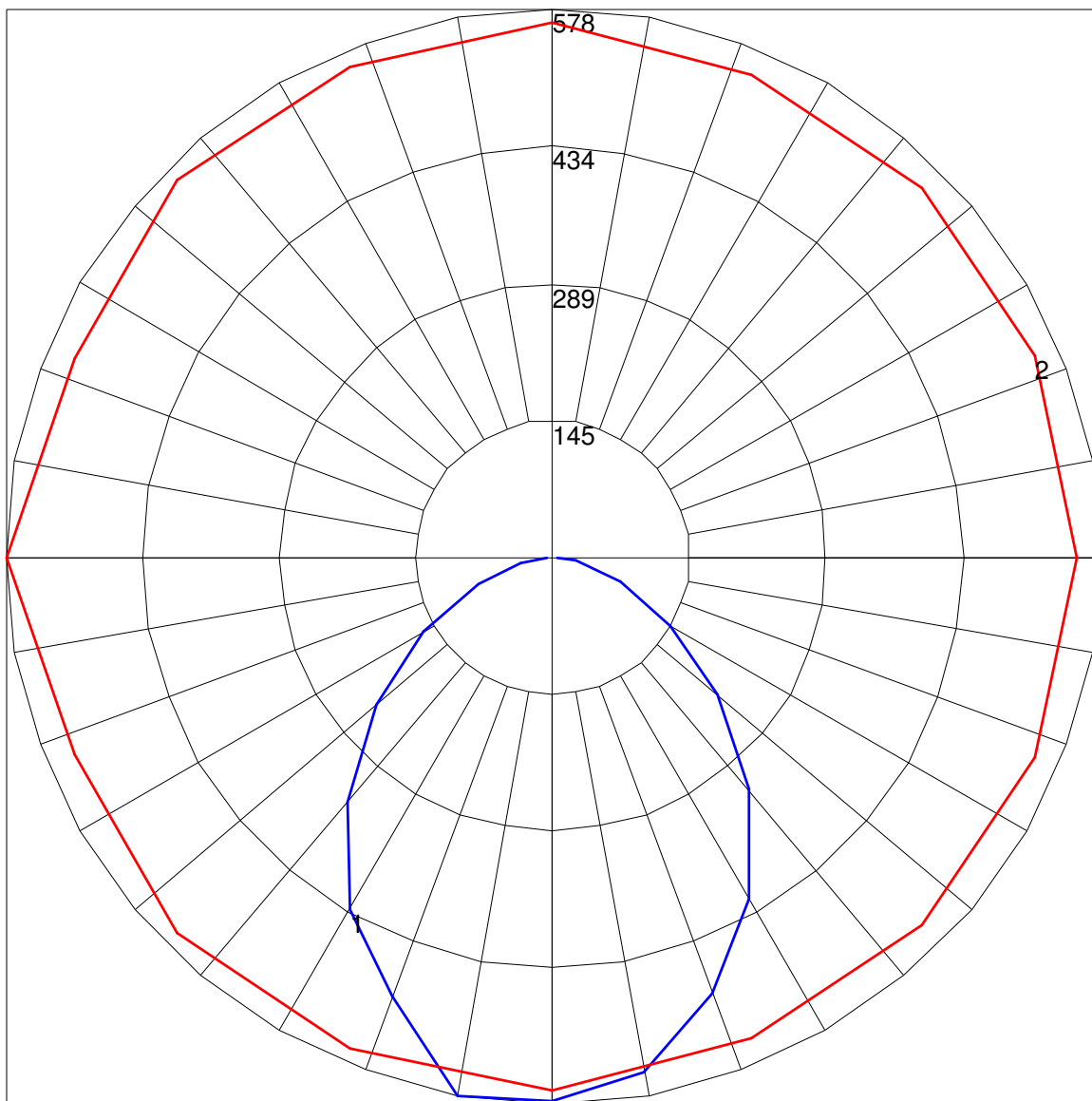
X=2H	Y=2H	16.1	17.6	16.4	17.9	18.2	16.6	18.1	16.9	18.4	18.7
	3H	17.4	18.8	17.8	19.1	19.4	17.8	19.2	18.2	19.5	19.9
	4H	17.8	19.1	18.2	19.4	19.8	18.2	19.5	18.6	19.8	20.2
	6H	18.0	19.2	18.5	19.6	20.0	18.4	19.6	18.8	20.0	20.3
	8H	18.1	19.2	18.5	19.6	20.0	18.4	19.6	18.8	20.0	20.4
	12H	18.2	19.3	18.6	19.6	20.1	18.5	19.6	18.9	19.9	20.4

UGR Viewed Endwise

4H	2H	16.5	17.8	16.9	18.2	18.6	17.0	18.3	17.4	18.6	19.0
	3H	18.0	19.1	18.4	19.5	19.9	18.4	19.5	18.8	19.9	20.3
	4H	18.5	19.5	19.0	19.9	20.4	18.9	19.9	19.3	20.3	20.7
	6H	18.9	19.7	19.3	20.1	20.6	19.2	20.0	19.6	20.5	20.9
	8H	18.9	19.7	19.4	20.2	20.6	19.2	20.0	19.7	20.5	20.9
	12H	19.0	19.7	19.5	20.2	20.7	19.3	20.0	19.8	20.5	20.9
8H	4H	18.7	19.5	19.1	19.9	20.4	19.0	19.8	19.5	20.3	20.7
	6H	19.1	19.7	19.6	20.2	20.7	19.4	20.0	19.9	20.5	21.0
	8H	19.2	19.8	19.7	20.3	20.8	19.5	20.1	20.0	20.6	21.1
	12H	19.3	19.9	19.9	20.4	20.9	19.6	20.1	20.1	20.6	21.2
12H	4H	18.7	19.4	19.2	19.9	20.3	19.0	19.7	19.5	20.2	20.7
	6H	19.1	19.7	19.6	20.1	20.7	19.4	20.0	19.9	20.4	21.0
	8H	19.2	19.8	19.8	20.3	20.8	19.5	20.1	20.0	20.5	21.1

Maximum UGR = 21.2

POLAR GRAPH



Maximum Candela = 578.158 Located At Horizontal Angle = 180, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)