



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-3-L18-830-DMA-(L11)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN FROM Photopia 2017.2.0 see: www.ltiopics.com/ies
 [ISSUEDATE] 10-11-2021
 [TESTDATE] Wed Mar 27 13:58:07 2019
 [TEST] 1SF-2
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 1SF-3-L18-830-DMA-(L11)-DIM-UNV
 [LUMINAIRE] 2' UNDERCABINET LUMINAIRE
 [LAMP] LED 22.6W 22" 56 LED linear LED module 3000K
 [LAMPCAT] HLM 90 CRI 3000K 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	1085
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	10
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
Luminous Length (0-180)	2.86 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	3038	3210	3414
55	2532	2697	2956
65	2020	2185	2455
75	1506	1682	1887
85	1306	1471	1680

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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	487.590	487.590	487.590	487.590	487.590	487.590	487.590	487.590	487.590
10	468.038	467.658	465.799	465.731	477.952	475.283	475.939	463.836	488.933
20	414.996	420.640	424.674	424.887	432.729	434.154	427.921	426.773	418.247
30	352.799	353.206	363.721	374.232	380.424	374.590	373.775	368.905	363.527
40	272.127	272.905	286.252	296.392	301.344	298.802	292.597	292.122	284.583
50	192.500	193.713	204.798	218.610	220.849	222.861	214.684	205.784	206.001
60	121.598	122.661	129.793	140.105	145.939	142.705	138.979	134.691	133.642
70	63.024	66.592	69.962	74.448	78.460	79.044	77.397	73.906	70.948
80	21.302	23.509	24.228	26.123	27.177	27.471	28.389	27.896	28.679
90	3.320	3.550	3.505	3.636	4.500	5.310	5.400	5.988	6.174

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	172.96	N.A.	15.90
0-30	356.81	N.A.	32.90
0-40	563.56	N.A.	51.90
0-60	912.07	N.A.	84.10
0-80	1068.3	N.A.	98.50
0-90	1085.1	N.A.	100.00
10-90	1039.34	N.A.	95.80
20-40	390.60	N.A.	36.00
20-50	584.18	N.A.	53.80
40-70	452.07	N.A.	41.70
60-80	156.23	N.A.	14.40
70-80	52.67	N.A.	4.90
80-90	16.80	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	1085.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	45.77
10-20	127.19
20-30	183.86
30-40	206.75
40-50	193.58
50-60	154.93
60-70	103.56
70-80	52.67
80-90	16.80
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

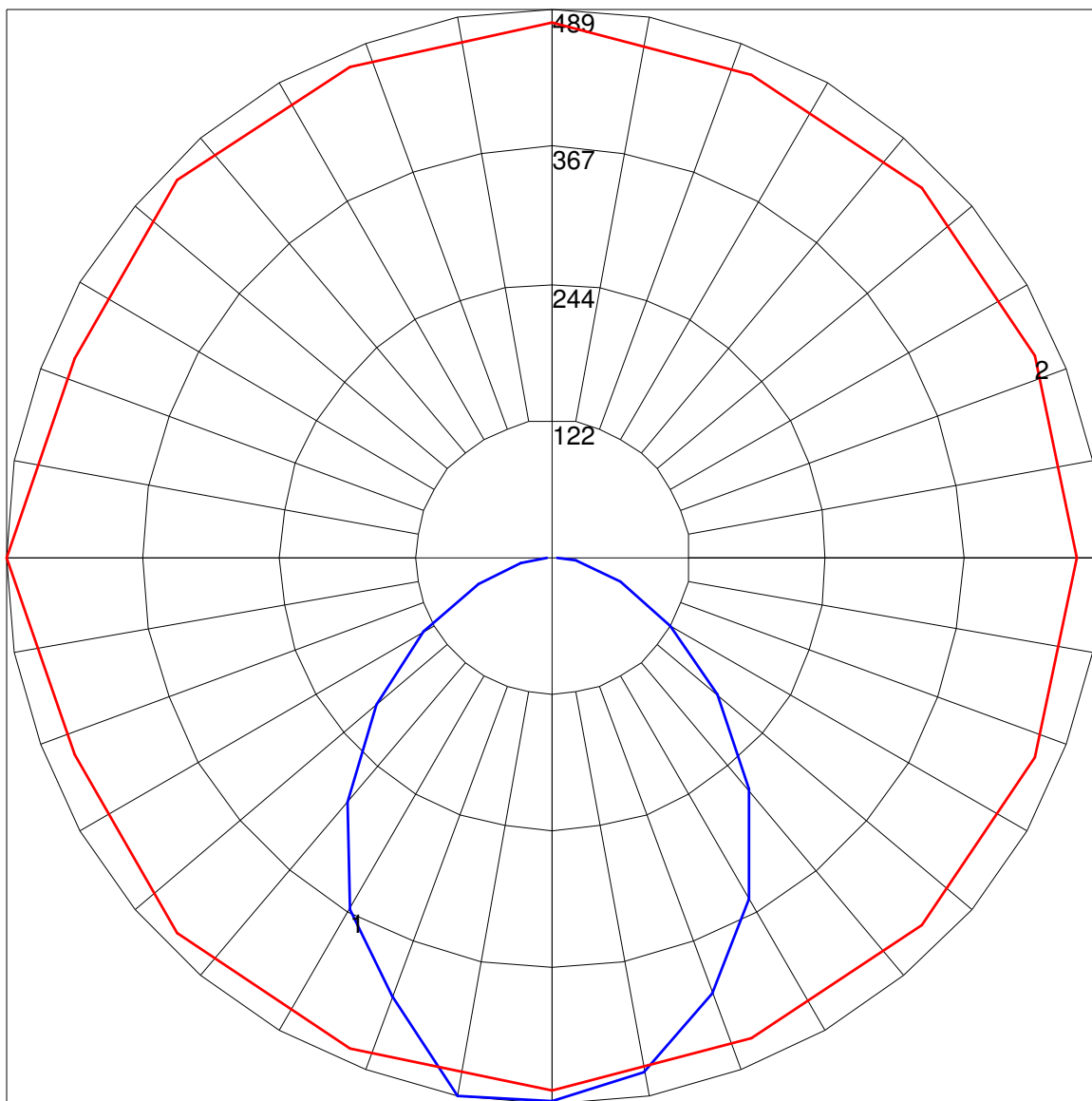
X=2H	Y=2H	14.5	16.1	14.9	16.4	16.7	15.5	17.1	15.9	17.4	17.7
	3H	15.9	17.2	16.2	17.6	17.9	16.9	18.3	17.3	18.7	19.0
	4H	16.3	17.6	16.7	18.0	18.3	17.4	18.7	17.8	19.1	19.5
	6H	16.6	17.8	17.0	18.2	18.6	17.8	19.0	18.2	19.3	19.7
	8H	16.7	17.8	17.1	18.2	18.6	17.8	19.0	18.3	19.4	19.8
	12H	16.8	17.9	17.2	18.2	18.7	17.9	19.0	18.4	19.4	19.9

UGR Viewed Endwise

4H	2H	15.1	16.4	15.5	16.7	17.1	16.0	17.3	16.4	17.6	18.0
	3H	16.6	17.7	17.0	18.1	18.5	17.6	18.7	18.0	19.1	19.5
	4H	17.2	18.2	17.6	18.6	19.0	18.2	19.2	18.6	19.6	20.0
	6H	17.6	18.4	18.1	18.9	19.3	18.6	19.5	19.1	19.9	20.4
	8H	17.7	18.5	18.2	19.0	19.4	18.8	19.6	19.2	20.0	20.5
	12H	17.8	18.6	18.3	19.0	19.5	18.9	19.6	19.4	20.1	20.6
8H	4H	17.5	18.3	17.9	18.7	19.2	18.4	19.2	18.9	19.6	20.1
	6H	17.9	18.6	18.4	19.1	19.6	18.9	19.6	19.4	20.1	20.5
	8H	18.1	18.7	18.6	19.2	19.7	19.1	19.7	19.6	20.2	20.7
	12H	18.3	18.9	18.9	19.3	19.9	19.4	19.9	19.9	20.4	20.9
12H	4H	17.5	18.2	18.0	18.7	19.1	18.4	19.1	18.9	19.6	20.1
	6H	18.0	18.6	18.5	19.0	19.6	18.9	19.5	19.5	20.0	20.5
	8H	18.2	18.7	18.7	19.2	19.8	19.2	19.7	19.7	20.2	20.8

Maximum UGR = 20.9

POLAR GRAPH



Maximum Candela = 488.933 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.)