



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-1-L6-830-DMA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] GEN FROM Photopia 2014.0.1 see: www.ltioptics.com/ies
 [ISSUE DATE]
 [TEST DATE] 10-05-2021
 [MANUFACTURER] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMINAIRE] 1' LED UNDERCABINET LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 1SF-1-L6-830-DMA-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3000K CCT
 [_SEARCH_SOURCE TYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	604
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
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	4265	5341	6505
55	2965	3877	5281
65	2118	2569	3631
75	1783	1916	2357
85	2494	2541	2243

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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	267.139	267.139	267.139	267.139	267.139
10	259.188	260.423	260.193	261.879	262.968
20	256.044	257.178	258.611	259.720	260.151
30	216.940	222.943	231.443	239.714	242.048
40	146.121	154.837	176.192	195.421	203.142
50	84.362	90.897	112.406	138.155	148.376
60	45.595	47.431	57.536	75.517	83.090
70	22.799	23.252	25.440	30.975	34.178
80	12.461	12.610	12.454	12.092	12.434
90	4.151	4.495	4.473	3.022	2.505

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	98.80	N.A.	16.40
0-30	212.04	N.A.	35.10
0-40	339.62	N.A.	56.20
0-60	530.61	N.A.	87.80
0-80	595.27	N.A.	98.50
0-90	604.12	N.A.	100.00
10-90	578.92	N.A.	95.80
20-40	240.82	N.A.	39.90
20-50	353.01	N.A.	58.40
40-70	234.79	N.A.	38.90
60-80	64.66	N.A.	10.70
70-80	20.86	N.A.	3.50
80-90	8.85	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	604.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.20
10-20	73.60
20-30	113.24
30-40	127.58
40-50	112.19
50-60	78.80
60-70	43.80
70-80	20.86
80-90	8.85
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	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	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	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

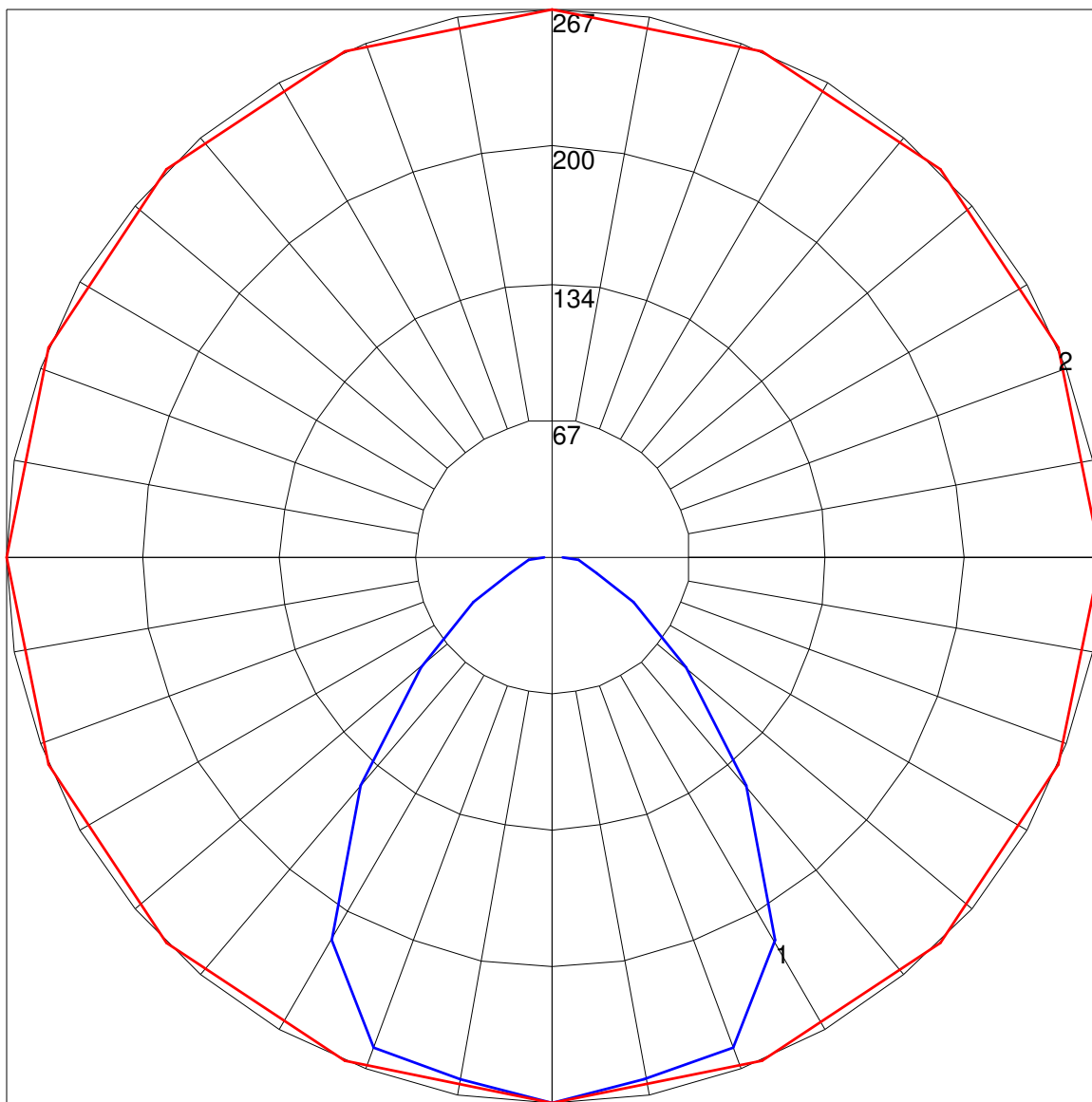
Reflectances

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	14.0	15.5	14.3	15.8	16.1	17.3	18.8	17.6	19.1	19.4
	3H	15.0	16.4	15.4	16.7	17.1	18.2	19.5	18.6	19.8	20.2
	4H	15.5	16.8	15.9	17.1	17.5	18.5	19.7	18.9	20.1	20.5
	6H	16.0	17.1	16.4	17.5	17.9	18.7	19.9	19.1	20.2	20.6
	8H	16.2	17.3	16.6	17.7	18.1	18.8	19.9	19.2	20.3	20.7
	12H	16.4	17.5	16.9	17.9	18.3	18.9	19.9	19.3	20.3	20.7
4H	2H	14.6	15.8	15.0	16.2	16.5	17.4	18.6	17.8	19.0	19.4
	3H	15.8	16.8	16.2	17.2	17.6	18.5	19.5	18.9	19.9	20.3
	4H	16.4	17.3	16.8	17.7	18.2	18.9	19.8	19.3	20.2	20.7
	6H	17.0	17.8	17.5	18.2	18.7	19.2	20.0	19.7	20.5	20.9
	8H	17.3	18.0	17.8	18.5	19.0	19.4	20.1	19.8	20.5	21.0
	12H	17.6	18.3	18.1	18.8	19.2	19.5	20.2	20.0	20.6	21.1
8H	4H	16.7	17.4	17.1	17.9	18.3	19.0	19.7	19.4	20.2	20.6
	6H	17.4	18.1	17.9	18.5	19.0	19.4	20.0	19.9	20.5	21.0
	8H	17.8	18.4	18.4	18.9	19.4	19.6	20.1	20.1	20.7	21.1
	12H	18.3	18.8	18.8	19.3	19.9	19.8	20.3	20.3	20.8	21.4
12H	4H	16.7	17.4	17.2	17.9	18.3	19.0	19.6	19.5	20.1	20.6
	6H	17.5	18.1	18.0	18.5	19.1	19.4	20.0	20.0	20.4	21.0
	8H	18.0	18.5	18.5	19.0	19.6	19.7	20.2	20.2	20.6	21.2

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 267.139 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.)