



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 1SF-1-L6-835-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
[ISSUE DATE]
[TEST DATE] 29 May 2020
[MANUFACTURER] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
[LUMINAIRE] 1' LED UNDERCABINET LUMINAIRE
[MORE] WITH FROSTED ACRYLIC LENS
[LUMCAT] 1SF-1-L6-835-AF12125-DIM-UNV
[LAMPCAT] HLM 80 CRI, 3500K 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	610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	4308	5394	6570
55	2994	3916	5333
65	2139	2595	3667
75	1800	1935	2380
85	2519	2567	2265

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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	269.793	269.793	269.793	269.793	269.793
10	261.762	263.010	262.777	264.480	265.580
20	258.587	259.733	261.180	262.300	262.735
30	219.095	225.157	233.743	242.095	244.452
40	147.572	156.375	177.942	197.363	205.160
50	85.200	91.800	113.522	139.528	149.850
60	46.047	47.903	58.108	76.267	83.915
70	23.025	23.483	25.692	31.282	34.517
80	12.585	12.735	12.578	12.213	12.557
90	4.192	4.540	4.518	3.053	2.530

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	99.78	N.A.	16.40
0-30	214.15	N.A.	35.10
0-40	342.99	N.A.	56.20
0-60	535.88	N.A.	87.80
0-80	601.18	N.A.	98.50
0-90	610.12	N.A.	100.00
10-90	584.67	N.A.	95.80
20-40	243.21	N.A.	39.90
20-50	356.51	N.A.	58.40
40-70	237.12	N.A.	38.90
60-80	65.30	N.A.	10.70
70-80	21.07	N.A.	3.50
80-90	8.94	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	610.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	25.45
10-20	74.33
20-30	114.36
30-40	128.84
40-50	113.30
50-60	79.58
60-70	44.23
70-80	21.07
80-90	8.94
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

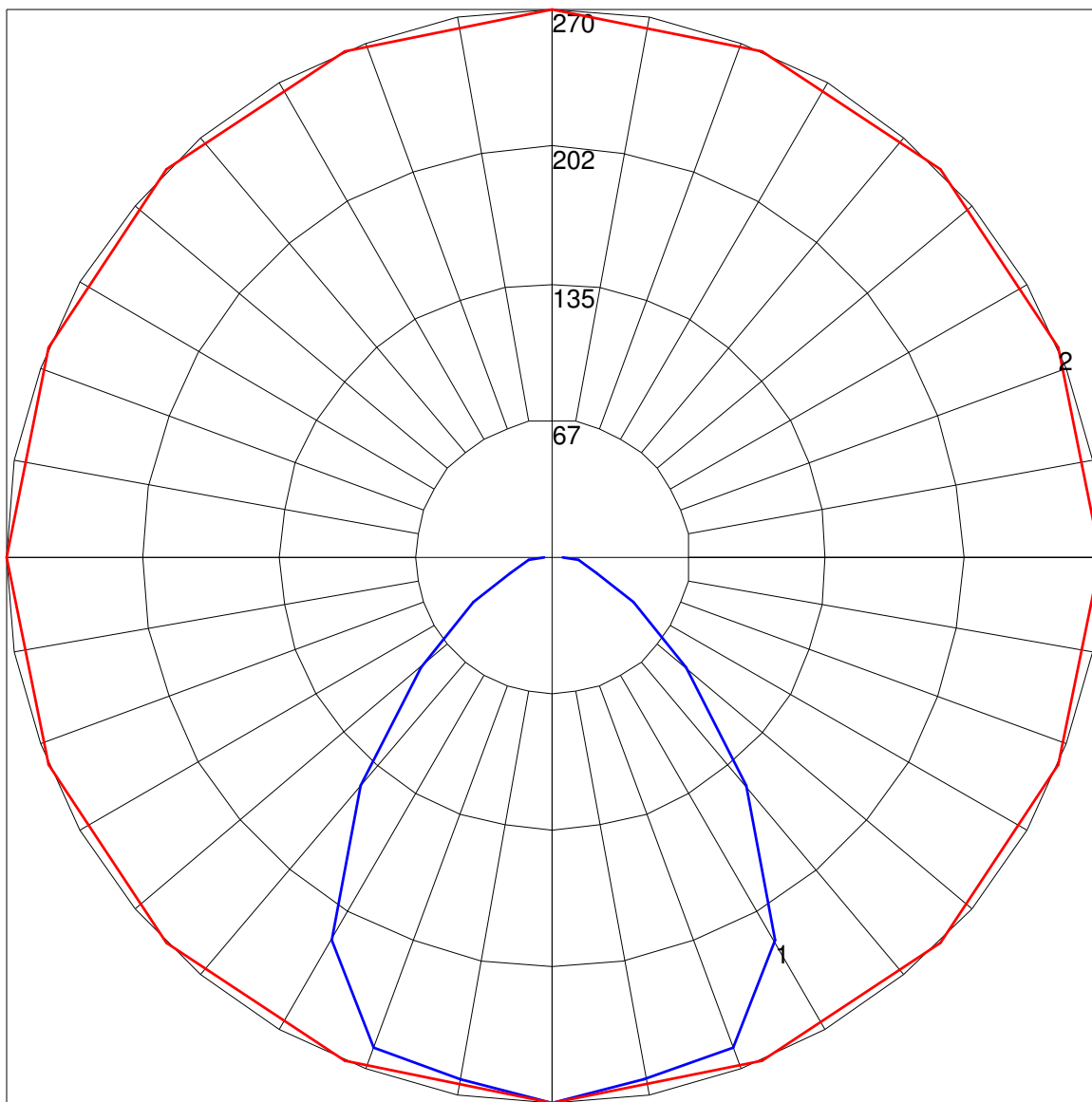
Reflectances

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	14.1	15.6	14.4	15.9	16.2	17.4	18.9	17.7	19.2	19.5
	3H	15.1	16.5	15.5	16.8	17.2	18.3	19.6	18.7	19.9	20.3
	4H	15.6	16.9	16.0	17.2	17.6	18.6	19.8	19.0	20.2	20.6
	6H	16.1	17.2	16.5	17.6	18.0	18.8	20.0	19.2	20.3	20.7
	8H	16.3	17.4	16.7	17.8	18.2	18.9	20.0	19.3	20.4	20.8
	12H	16.5	17.6	17.0	18.0	18.4	19.0	20.0	19.4	20.4	20.8
4H	2H	14.7	15.9	15.1	16.3	16.6	17.5	18.7	17.9	19.1	19.5
	3H	15.9	16.9	16.3	17.3	17.7	18.6	19.6	19.0	20.0	20.4
	4H	16.5	17.4	16.9	17.8	18.3	19.0	19.9	19.4	20.3	20.8
	6H	17.1	17.9	17.6	18.3	18.8	19.3	20.1	19.8	20.6	21.0
	8H	17.4	18.1	17.9	18.6	19.1	19.5	20.2	19.9	20.6	21.1
	12H	17.7	18.4	18.2	18.9	19.3	19.6	20.3	20.1	20.7	21.2
8H	4H	16.8	17.5	17.2	18.0	18.4	19.1	19.8	19.5	20.3	20.7
	6H	17.5	18.2	18.0	18.6	19.1	19.5	20.1	20.0	20.6	21.1
	8H	17.9	18.5	18.5	19.0	19.5	19.7	20.2	20.2	20.8	21.2
	12H	18.4	18.9	18.9	19.4	20.0	19.9	20.4	20.4	20.9	21.5
12H	4H	16.8	17.5	17.3	18.0	18.4	19.1	19.7	19.6	20.2	20.7
	6H	17.6	18.2	18.1	18.6	19.2	19.5	20.1	20.1	20.5	21.1
	8H	18.1	18.6	18.6	19.1	19.7	19.8	20.3	20.3	20.7	21.3

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 269.793 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.)