



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-2-L12-835-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] 2' LED UNDER CABINET LUMINAIRE
 [MORE] WITH FROSTED ACRYLIC LENS
 [LUMCAT] 1SF-2-L12-835-AF12125-DIM-UNV
 [LAMPCAT] HLM 80 CRI, 3500K 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	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)	1.20
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.28
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.89 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	4855	6080	7405
55	3375	4414	6011
65	2411	2925	4133
75	2029	2181	2683
85	2839	2893	2553

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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	567.449	567.449	567.449	567.449	567.449
10	550.559	553.183	552.694	556.275	558.589
20	543.882	546.290	549.334	551.690	552.605
30	460.818	473.569	491.626	509.193	514.152
40	310.386	328.900	374.263	415.108	431.509
50	179.199	193.081	238.769	293.465	315.176
60	96.851	100.752	122.216	160.412	176.497
70	48.428	49.390	54.038	65.796	72.600
80	26.470	26.785	26.454	25.686	26.412
90	8.818	9.549	9.502	6.420	5.321

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	209.87	N.A.	16.40
0-30	450.42	N.A.	35.10
0-40	721.41	N.A.	56.20
0-60	1127.1	N.A.	87.80
0-80	1264.45	N.A.	98.50
0-90	1283.26	N.A.	100.00
10-90	1229.72	N.A.	95.80
20-40	511.54	N.A.	39.90
20-50	749.85	N.A.	58.40
40-70	498.72	N.A.	38.90
60-80	137.35	N.A.	10.70
70-80	44.31	N.A.	3.50
80-90	18.81	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	1283.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	53.53
10-20	156.34
20-30	240.54
30-40	271.00
40-50	238.31
50-60	167.38
60-70	93.03
70-80	44.31
80-90	18.81
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

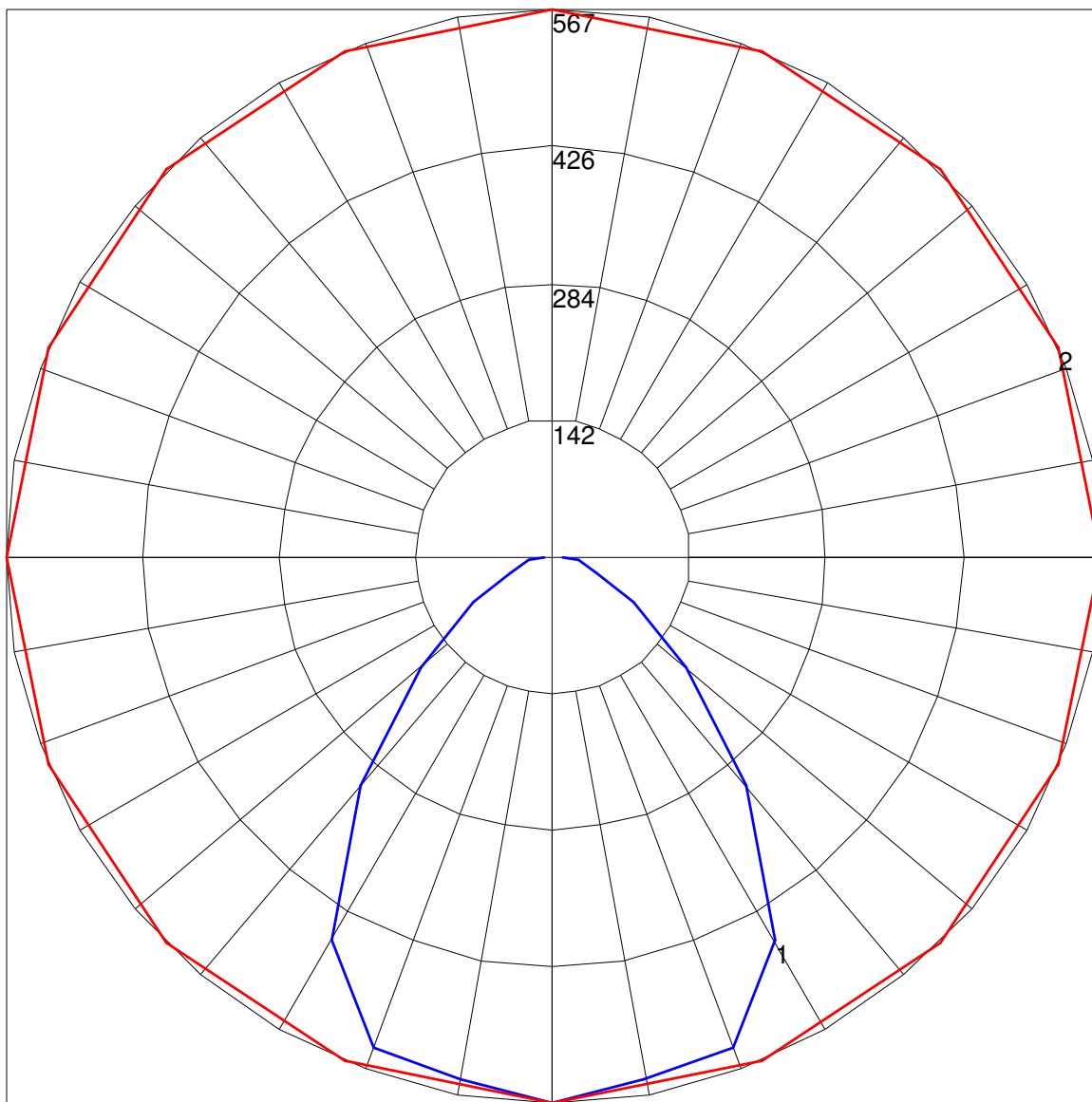
Reflectances

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	14.5	16.0	14.9	16.3	16.6	17.8	19.3	18.2	19.6	19.9
	3H	15.6	16.9	15.9	17.2	17.6	18.7	20.0	19.1	20.4	20.7
	4H	16.0	17.3	16.4	17.6	18.0	19.0	20.3	19.4	20.6	21.0
	6H	16.5	17.7	16.9	18.0	18.4	19.3	20.4	19.7	20.8	21.2
	8H	16.7	17.8	17.2	18.2	18.6	19.3	20.4	19.7	20.8	21.2
	12H	17.0	18.0	17.4	18.4	18.8	19.4	20.4	19.8	20.8	21.3
4H	2H	15.1	16.3	15.5	16.7	17.1	17.9	19.2	18.3	19.5	19.9
	3H	16.3	17.4	16.7	17.8	18.2	19.0	20.0	19.4	20.4	20.8
	4H	16.9	17.9	17.4	18.3	18.7	19.4	20.4	19.9	20.8	21.2
	6H	17.5	18.3	18.0	18.8	19.2	19.8	20.6	20.2	21.0	21.5
	8H	17.8	18.6	18.3	19.0	19.5	19.9	20.6	20.4	21.1	21.5
	12H	18.2	18.8	18.6	19.3	19.8	20.0	20.7	20.5	21.2	21.6
8H	4H	17.2	18.0	17.7	18.4	18.9	19.5	20.3	20.0	20.7	21.2
	6H	18.0	18.6	18.5	19.1	19.6	19.9	20.5	20.4	21.0	21.5
	8H	18.4	18.9	18.9	19.4	19.9	20.1	20.7	20.6	21.2	21.7
	12H	18.8	19.3	19.4	19.8	20.4	20.3	20.8	20.9	21.3	21.9
12H	4H	17.2	17.9	17.7	18.4	18.9	19.5	20.2	20.0	20.7	21.1
	6H	18.1	18.6	18.6	19.1	19.6	20.0	20.5	20.5	21.0	21.5
	8H	18.5	19.0	19.0	19.5	20.1	20.2	20.7	20.7	21.2	21.7

Maximum UGR = 21.9

POLAR GRAPH



Maximum Candela = 567.449 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.)