



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 1SF-1-L6-930-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
[ISSUEDATE]
[TESTDATE] 12-01-2022
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
[LUMINAIRE] 1' LED UNDERCABINET LUMINAIRE
[MORE] WITH FROSTED ACRYLIC LENS
[LUMCAT] 1SF-1-L6-930-DMA-DIM-UNV
[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	489
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	5.5
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	3453	4324	5267
55	2400	3139	4275
65	1714	2080	2940
75	1443	1551	1908
85	2019	2058	1816

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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	216.276	216.276	216.276	216.276	216.276
10	209.839	210.839	210.653	212.018	212.899
20	207.294	208.212	209.372	210.270	210.619
30	175.635	180.495	187.377	194.073	195.963
40	118.300	125.356	142.646	158.214	164.464
50	68.300	73.590	91.004	111.851	120.126
60	36.913	38.401	46.581	61.139	67.270
70	18.458	18.824	20.596	25.077	27.671
80	10.089	10.209	10.083	9.790	10.067
90	3.361	3.639	3.621	2.447	2.028

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	79.99	N.A.	16.40
0-30	171.67	N.A.	35.10
0-40	274.96	N.A.	56.20
0-60	429.58	N.A.	87.80
0-80	481.93	N.A.	98.50
0-90	489.10	N.A.	100.00
10-90	468.70	N.A.	95.80
20-40	194.97	N.A.	39.90
20-50	285.79	N.A.	58.40
40-70	190.08	N.A.	38.90
60-80	52.35	N.A.	10.70
70-80	16.89	N.A.	3.50
80-90	7.17	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	489.10	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	20.40
10-20	59.59
20-30	91.68
30-40	103.29
40-50	90.83
50-60	63.80
60-70	35.46
70-80	16.89
80-90	7.17
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

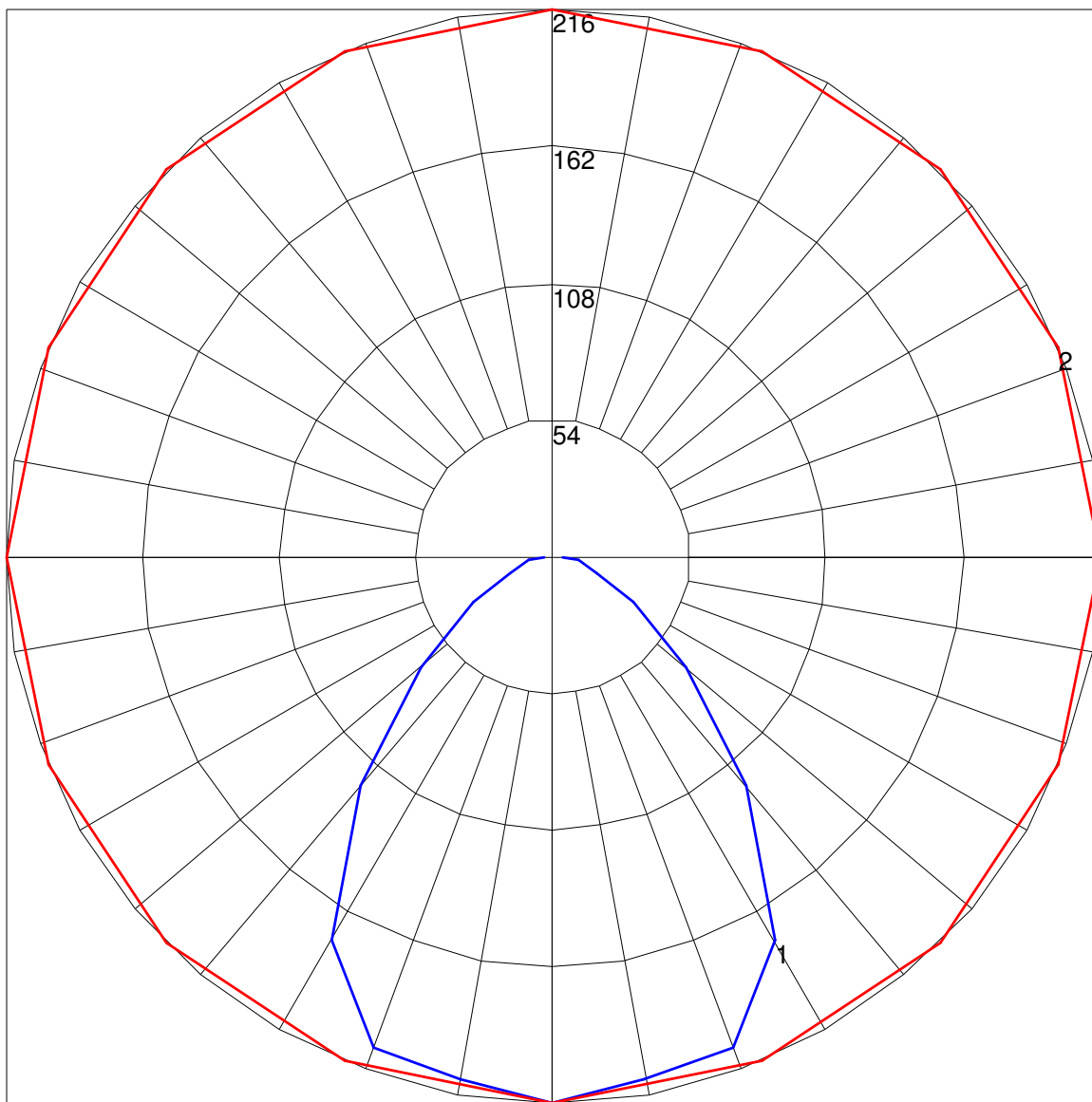
Reflectances

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	13.3	14.8	13.6	15.1	15.4	16.6	18.1	16.9	18.4	18.7
	3H	14.3	15.7	14.7	16.0	16.4	17.5	18.8	17.9	19.1	19.5
	4H	14.8	16.1	15.2	16.4	16.8	17.8	19.0	18.2	19.4	19.8
	6H	15.3	16.4	15.7	16.8	17.2	18.0	19.2	18.4	19.5	19.9
	8H	15.5	16.6	15.9	17.0	17.4	18.1	19.2	18.5	19.6	20.0
	12H	15.7	16.8	16.2	17.2	17.6	18.2	19.2	18.6	19.6	20.0
4H	2H	13.9	15.1	14.3	15.5	15.8	16.7	17.9	17.1	18.3	18.7
	3H	15.1	16.1	15.5	16.5	16.9	17.8	18.8	18.2	19.2	19.6
	4H	15.7	16.6	16.1	17.0	17.5	18.2	19.1	18.6	19.5	20.0
	6H	16.3	17.1	16.8	17.6	18.0	18.5	19.3	19.0	19.8	20.2
	8H	16.6	17.3	17.1	17.8	18.3	18.7	19.4	19.1	19.8	20.3
	12H	16.9	17.6	17.4	18.1	18.5	18.8	19.5	19.3	19.9	20.4
8H	4H	16.0	16.7	16.4	17.2	17.6	18.3	19.0	18.7	19.5	19.9
	6H	16.7	17.4	17.2	17.9	18.3	18.7	19.3	19.2	19.8	20.3
	8H	17.2	17.7	17.7	18.2	18.7	18.9	19.4	19.4	20.0	20.4
	12H	17.6	18.1	18.1	18.6	19.2	19.1	19.6	19.6	20.1	20.7
12H	4H	16.0	16.7	16.5	17.2	17.6	18.3	18.9	18.8	19.4	19.9
	6H	16.8	17.4	17.4	17.8	18.4	18.7	19.3	19.3	19.7	20.3
	8H	17.3	17.8	17.8	18.3	18.9	19.0	19.5	19.5	20.0	20.5

Maximum UGR = 20.7

POLAR GRAPH



Maximum Candela = 216.276 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.)