



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-2-P19-835-AF12125-POE_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] GEN FROM Photopia 2014.0.1 see: www.ltiophics.com/ies

[ISSUE DATE]

[TEST DATE] 29 May 2020

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] 1SF-2-P19-835-AF12125-PoE

[LUMINAIRE] NOMINAL 2' LED UNDER CABINET LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1939
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	15.2
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	7338	9188	11192
55	5101	6670	9085
65	3643	4420	6247
75	3067	3296	4054
85	4291	4372	3859

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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	857.586	857.586	857.586	857.586	857.586
10	832.061	836.027	835.288	840.699	844.196
20	821.969	825.609	830.210	833.770	835.153
30	696.435	715.706	742.995	769.545	777.038
40	469.087	497.067	565.624	627.354	652.140
50	270.824	291.804	360.853	443.514	476.326
60	146.371	152.267	184.706	242.431	266.740
70	73.189	74.644	81.668	99.437	109.720
80	40.004	40.481	39.980	38.820	39.916
90	13.327	14.431	14.360	9.703	8.042

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	317.18	N.A.	16.40
0-30	680.71	N.A.	35.10
0-40	1090.27	N.A.	56.20
0-60	1703.39	N.A.	87.80
0-80	1910.97	N.A.	98.50
0-90	1939.39	N.A.	100.00
10-90	1858.49	N.A.	95.80
20-40	773.09	N.A.	39.90
20-50	1133.24	N.A.	58.40
40-70	753.72	N.A.	38.90
60-80	207.57	N.A.	10.70
70-80	66.97	N.A.	3.50
80-90	28.42	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	1939.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.90
10-20	236.28
20-30	363.53
30-40	409.56
40-50	360.16
50-60	252.97
60-70	140.60
70-80	66.97
80-90	28.42
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	82	82	82	82	80	80	80	80	76	76	76	73	73	73	70	70	70	69
1	76	73	70	68	74	71	69	67	69	67	65	66	64	63	63	62	61	60
2	70	65	61	57	68	64	60	57	61	58	55	59	56	54	57	55	53	51
3	64	58	53	49	63	57	52	48	55	51	48	53	50	47	51	48	46	45
4	59	52	47	42	58	51	46	42	49	45	42	48	44	41	46	43	40	39
5	55	47	41	37	54	46	41	37	45	40	37	43	39	36	42	39	36	34
6	51	43	37	33	50	42	37	33	41	36	32	40	35	32	39	35	32	31
7	48	39	33	29	46	38	33	29	37	33	29	36	32	29	35	32	29	27
8	44	36	30	26	43	35	30	26	34	30	26	34	29	26	33	29	26	25
9	42	33	28	24	41	32	27	24	32	27	24	31	27	24	30	26	24	22
10	39	30	25	22	38	30	25	22	29	25	22	29	25	22	28	24	22	20

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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	14.7	16.2	15.1	16.5	16.8	18.0	19.5	18.4	19.8	20.1
	3H	15.8	17.1	16.2	17.4	17.8	18.9	20.3	19.3	20.6	20.9
	4H	16.3	17.5	16.7	17.8	18.2	19.2	20.5	19.6	20.8	21.2
	6H	16.7	17.9	17.1	18.2	18.6	19.5	20.6	19.9	21.0	21.4
	8H	16.9	18.0	17.4	18.4	18.8	19.5	20.6	20.0	21.0	21.4
	12H	17.2	18.2	17.6	18.6	19.0	19.6	20.7	20.0	21.0	21.5

UGR Viewed Endwise

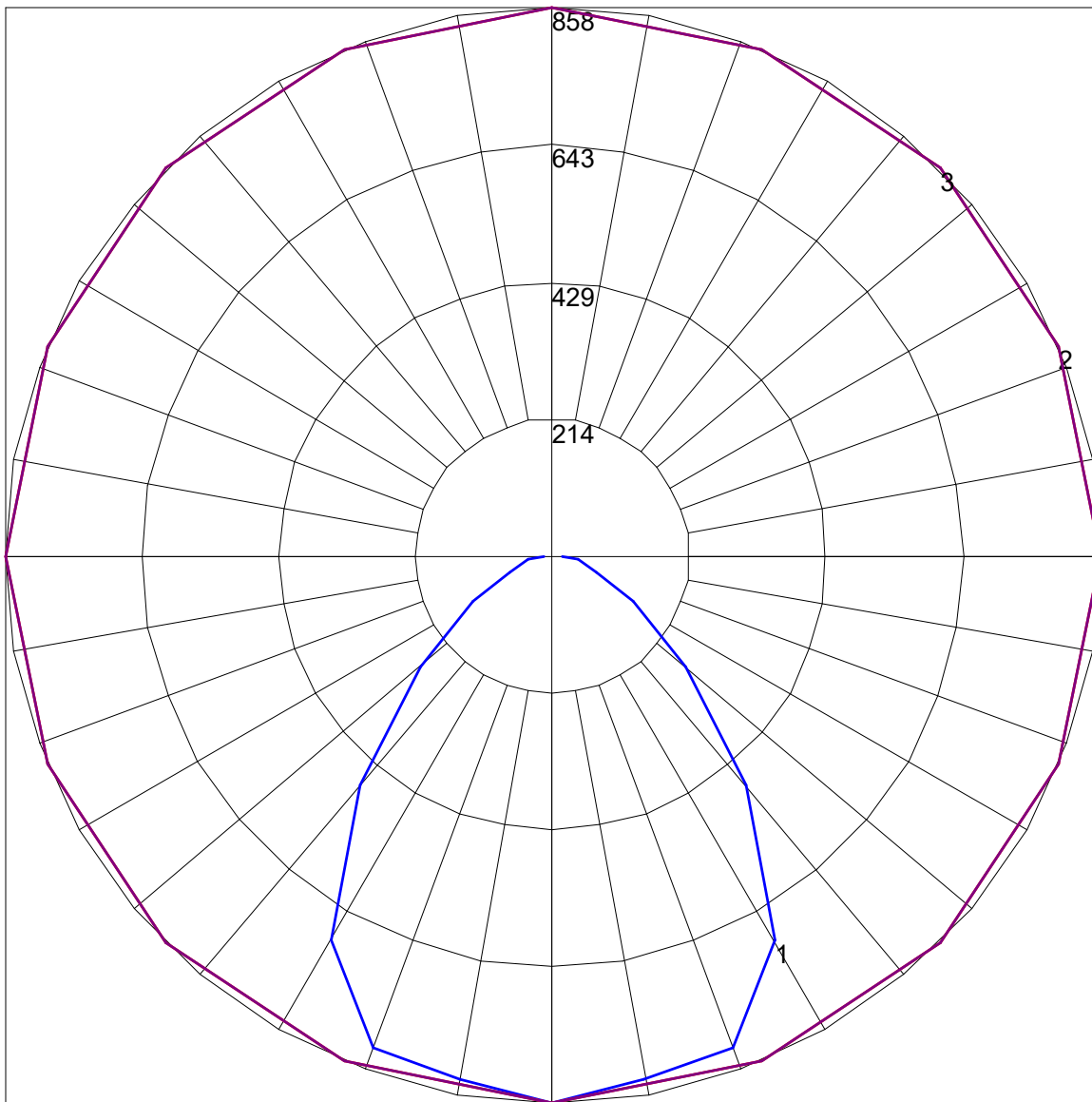
4H	2H	15.3	16.6	15.7	16.9	17.3	18.1	19.4	18.5	19.7	20.1
	3H	16.5	17.6	16.9	18.0	18.4	19.2	20.2	19.6	20.6	21.0
	4H	17.1	18.1	17.6	18.5	18.9	19.7	20.6	20.1	21.0	21.4
	6H	17.7	18.6	18.2	19.0	19.5	20.0	20.8	20.4	21.2	21.7
	8H	18.0	18.8	18.5	19.2	19.7	20.1	20.8	20.6	21.3	21.8
	12H	18.4	19.0	18.9	19.5	20.0	20.2	20.9	20.7	21.4	21.9

8H	4H	17.4	18.2	17.9	18.6	19.1	19.7	20.5	20.2	20.9	21.4
	6H	18.2	18.8	18.7	19.3	19.8	20.1	20.8	20.6	21.3	21.7
	8H	18.6	19.1	19.1	19.7	20.1	20.3	20.9	20.9	21.4	21.9
	12H	19.1	19.6	19.6	20.0	20.6	20.6	21.0	21.1	21.5	22.1

12H	4H	17.5	18.1	17.9	18.6	19.1	19.7	20.4	20.2	20.9	21.3
	6H	18.3	18.8	18.8	19.3	19.8	20.2	20.7	20.7	21.2	21.7
	8H	18.7	19.2	19.3	19.7	20.3	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 22.1

POLAR GRAPH



Maximum Candela = 857.586 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.)
3 - Horizontal Cone Through Vertical Angle (0)