



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 1SF-3-L18-835-AF12125-DIM-UNV_.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
 [MANUFACTURER] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMEN CATEGORY] 1SF-3-L18-835-AF12125-DIM-UNV
 [LUMINAIRE] NOMINAL 3' LED UNDER CABINET LUMINAIRE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1857
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	16
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)	2.86 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	4633	5801	7066
55	3220	4211	5736
65	2300	2791	3944
75	1936	2081	2560
85	2709	2760	2436

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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	821.319	821.319	821.319	821.319	821.319
10	796.874	800.671	799.964	805.146	808.495
20	787.208	790.694	795.100	798.510	799.834
30	666.983	685.438	711.573	737.001	744.177
40	449.249	476.046	541.704	600.823	624.561
50	259.371	279.463	345.592	424.758	456.183
60	140.181	145.828	176.894	232.178	255.459
70	70.094	71.487	78.215	95.232	105.080
80	38.312	38.769	38.289	37.178	38.228
90	12.763	13.821	13.752	9.293	7.702

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	303.77	N.A.	16.40
0-30	651.93	N.A.	35.10
0-40	1044.16	N.A.	56.20
0-60	1631.36	N.A.	87.80
0-80	1830.15	N.A.	98.50
0-90	1857.37	N.A.	100.00
10-90	1779.89	N.A.	95.80
20-40	740.39	N.A.	39.90
20-50	1085.32	N.A.	58.40
40-70	721.85	N.A.	38.90
60-80	198.79	N.A.	10.70
70-80	64.14	N.A.	3.50
80-90	27.22	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	1857.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.48
10-20	226.29
20-30	348.16
30-40	392.24
40-50	344.93
50-60	242.27
60-70	134.65
70-80	64.14
80-90	27.22
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 RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	91	91	91	91	89	89	89	89	85	85	85	81	81	81	78	78	78	76
1	84	81	78	75	82	79	77	74	76	74	72	73	71	70	70	69	68	66
2	77	72	67	63	76	71	66	63	68	64	61	65	63	60	63	61	59	57
3	71	64	59	54	70	63	58	54	61	56	53	59	55	52	57	54	51	50
4	66	58	52	47	64	57	51	47	55	50	46	53	49	45	52	48	45	43
5	61	52	46	41	60	51	45	41	50	44	41	48	44	40	47	43	40	38
6	57	47	41	36	55	47	41	36	45	40	36	44	39	36	43	39	35	34
7	53	43	37	33	51	43	37	32	41	36	32	40	36	32	39	35	32	30
8	49	40	33	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27
9	46	36	31	27	45	36	30	27	35	30	26	34	30	26	34	29	26	25
10	43	34	28	24	42	33	28	24	33	28	24	32	27	24	31	27	24	23

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UGR TABLE - CORRECTED

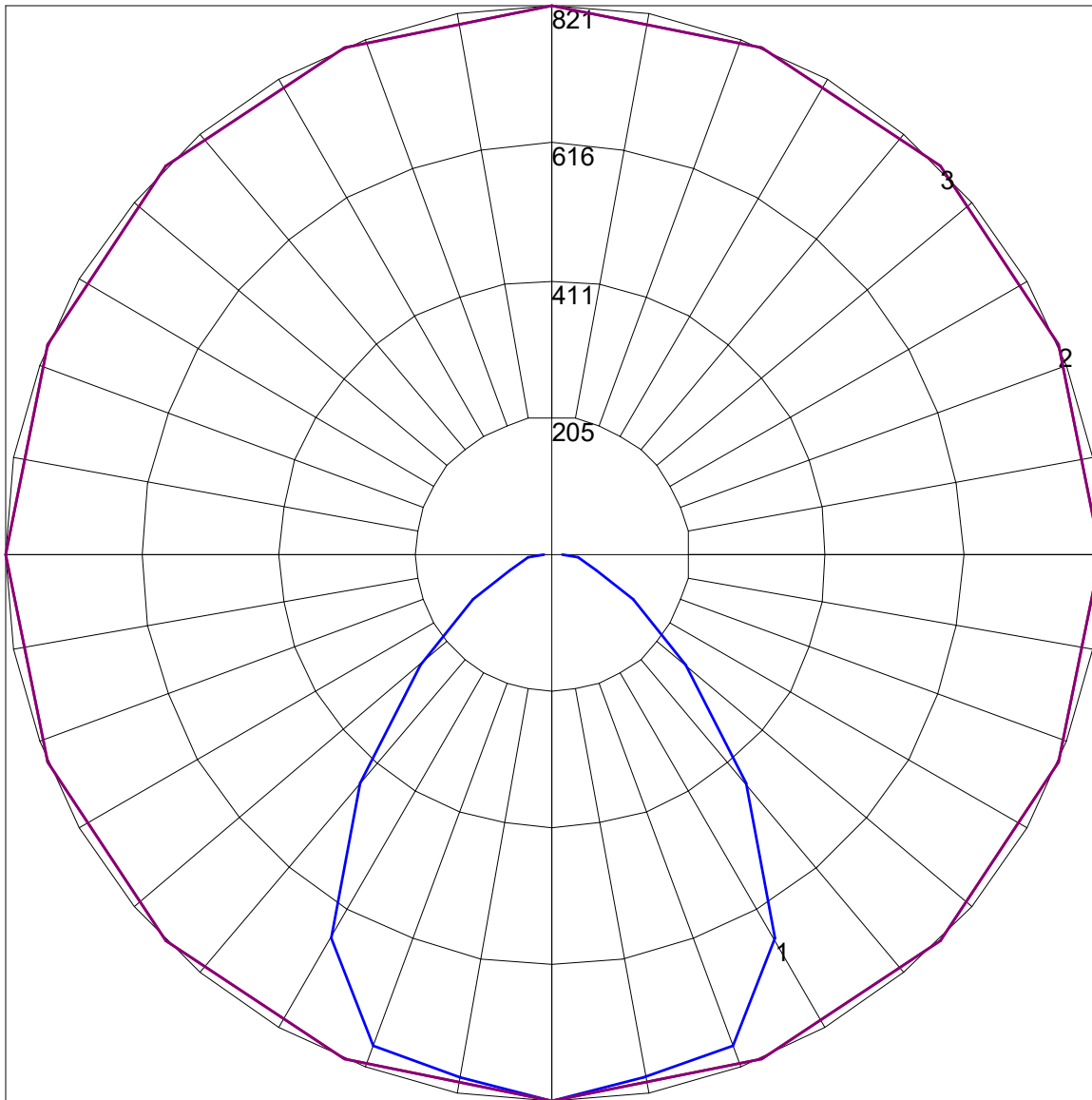
Reflectances

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	14.2	15.7	14.6	16.0	16.3	17.5	19.0	17.9	19.3	19.6
	3H	15.3	16.6	15.7	16.9	17.3	18.4	19.8	18.8	20.1	20.4
	4H	15.8	17.0	16.2	17.4	17.7	18.7	20.0	19.1	20.3	20.7
	6H	16.2	17.4	16.6	17.7	18.1	19.0	20.1	19.4	20.5	20.9
	8H	16.4	17.5	16.9	17.9	18.3	19.0	20.1	19.5	20.5	20.9
	12H	16.7	17.7	17.1	18.1	18.5	19.1	20.2	19.6	20.5	21.0
4H	2H	14.8	16.1	15.2	16.4	16.8	17.6	18.9	18.0	19.2	19.6
	3H	16.0	17.1	16.5	17.5	17.9	18.7	19.7	19.1	20.1	20.5
	4H	16.7	17.6	17.1	18.0	18.4	19.2	20.1	19.6	20.5	20.9
	6H	17.2	18.1	17.7	18.5	19.0	19.5	20.3	19.9	20.7	21.2
	8H	17.5	18.3	18.0	18.7	19.2	19.6	20.3	20.1	20.8	21.3
	12H	17.9	18.5	18.4	19.0	19.5	19.7	20.4	20.2	20.9	21.4
8H	4H	16.9	17.7	17.4	18.1	18.6	19.2	20.0	19.7	20.4	20.9
	6H	17.7	18.3	18.2	18.8	19.3	19.6	20.3	20.1	20.8	21.2
	8H	18.1	18.6	18.6	19.2	19.6	19.8	20.4	20.4	20.9	21.4
	12H	18.6	19.1	19.1	19.5	20.1	20.1	20.6	20.6	21.0	21.6
12H	4H	17.0	17.6	17.4	18.1	18.6	19.2	19.9	19.7	20.4	20.8
	6H	17.8	18.3	18.3	18.8	19.3	19.7	20.2	20.2	20.7	21.2
	8H	18.2	18.7	18.8	19.2	19.8	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 821.319 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)