



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-850-HIA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 17259.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 06-NOV-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2' LED DIRECT/INDIRECT STAIRWELL LIGHT
 [MORE] WHITE REFLECTOR w/FROSTED POLYCARBONATE LENS
 [LUMCAT] SLF-2-L45-850-HIA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 5000K CCT
 [_SEARCH_SOURCETYPE]LED
 [_SEARCH_APPLICATION]INDOOR,COMMERCIAL,DIRECT,LINEAR
 [_SEARCH_MOUNTING]CEILING,SURFACE,WALL

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4912
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	143
Total Luminaire Watts	34.35
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	2.06 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.24 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11258	10177	11032
55	9397	8569	9880
65	7279	7056	8576
75	5177	5835	7300
85	2206	4900	6441

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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	1548.168	1548.168	1548.168	1548.168	1548.168
5	1552.326	1542.624	1535.694	1537.080	1528.764
10	1524.606	1520.448	1516.290	1524.606	1520.448
15	1476.095	1474.709	1480.253	1492.727	1494.113
20	1415.111	1420.655	1431.743	1455.305	1463.621
25	1320.863	1333.337	1362.443	1394.321	1409.567
30	1218.298	1241.861	1291.757	1334.723	1351.355
35	1108.804	1133.752	1201.666	1262.651	1286.213
40	981.292	1014.556	1094.944	1176.718	1201.666
45	852.393	892.587	981.292	1078.312	1107.418
50	716.565	773.391	862.095	974.362	1006.240
55	602.912	658.352	755.373	880.113	916.149
60	479.558	540.542	647.264	769.233	812.199
65	368.677	428.276	544.700	661.124	705.477
70	273.043	332.641	458.768	568.262	604.298
75	184.339	241.165	372.835	479.558	505.892
80	108.108	174.637	302.149	397.783	424.118
85	42.966	120.582	238.393	332.641	349.273
90	0.000	73.458	185.725	268.885	282.745
95	0.000	51.282	148.303	221.761	234.235
100	0.000	33.264	109.494	177.409	187.111
105	0.000	29.106	94.248	144.145	159.391
110	0.000	18.018	67.914	113.652	126.126
115	0.000	16.632	59.598	95.634	108.108
120	0.000	15.246	47.124	79.002	91.476
125	0.000	11.088	36.036	63.756	73.458
130	0.000	0.000	34.650	56.826	62.370
135	0.000	0.000	23.562	41.580	51.282
140	0.000	0.000	20.790	36.036	40.194
145	0.000	0.000	0.000	27.720	33.264
150	0.000	0.000	0.000	23.562	27.720
155	0.000	0.000	0.000	19.404	19.404
160	0.000	0.000	0.000	16.632	0.000
165	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	11.088	0.000
180	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	565.22	N.A.	11.50
0-30	1194.58	N.A.	24.30
0-40	1943.46	N.A.	39.60
0-60	3383.63	N.A.	68.90
0-80	4309.12	N.A.	87.70
0-90	4553.51	N.A.	92.70
10-90	4407.14	N.A.	89.70
20-40	1378.24	N.A.	28.10
20-50	2136.88	N.A.	43.50
40-70	1981.6	N.A.	40.30
60-80	925.49	N.A.	18.80
70-80	384.07	N.A.	7.80
80-90	244.38	N.A.	5.00
90-110	238.12	N.A.	4.80
90-120	294.15	N.A.	6.00
90-130	328.18	N.A.	6.70
90-150	354.79	N.A.	7.20
90-180	358.57	N.A.	7.30
110-180	120.46	N.A.	2.50
0-180	4912.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.37
10-20	418.85
20-30	629.36
30-40	748.88
40-50	758.65
50-60	681.53
60-70	541.42
70-80	384.07
80-90	244.38
90-100	147.37
100-110	90.75
110-120	56.03
120-130	34.03
130-140	18.55
140-150	8.07
150-160	3.30
160-170	0.34
170-180	0.13

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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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	96	91	102	97	93	89	92	88	85	86	84	81	82	79	77	75
2	96	87	80	74	92	84	78	72	80	74	69	75	71	67	71	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	61	56	63	58	54	52
4	80	67	58	51	77	66	57	51	62	55	49	59	53	48	56	51	46	44
5	73	60	51	44	71	59	50	44	56	48	43	53	46	41	50	45	40	38
6	68	54	45	39	65	53	44	38	50	43	37	48	41	36	46	40	35	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	31	29
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	38	33	28	26
9	55	41	33	27	53	40	32	27	39	31	26	37	31	26	35	30	25	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

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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	18.0	19.5	18.5	20.0	20.5	20.4	21.9	20.9	22.4	22.9
	3H	19.4	20.8	19.9	21.3	21.8	22.6	24.0	23.1	24.5	25.0
	4H	19.9	21.2	20.4	21.7	22.2	23.7	25.0	24.2	25.5	26.0
	6H	20.2	21.4	20.8	21.9	22.5	24.7	25.9	25.2	26.4	27.0
	8H	20.3	21.5	20.8	22.0	22.6	25.2	26.4	25.7	26.9	27.4
	12H	20.4	21.5	20.9	22.0	22.6	25.7	26.8	26.3	27.3	27.9

UGR Viewed Endwise

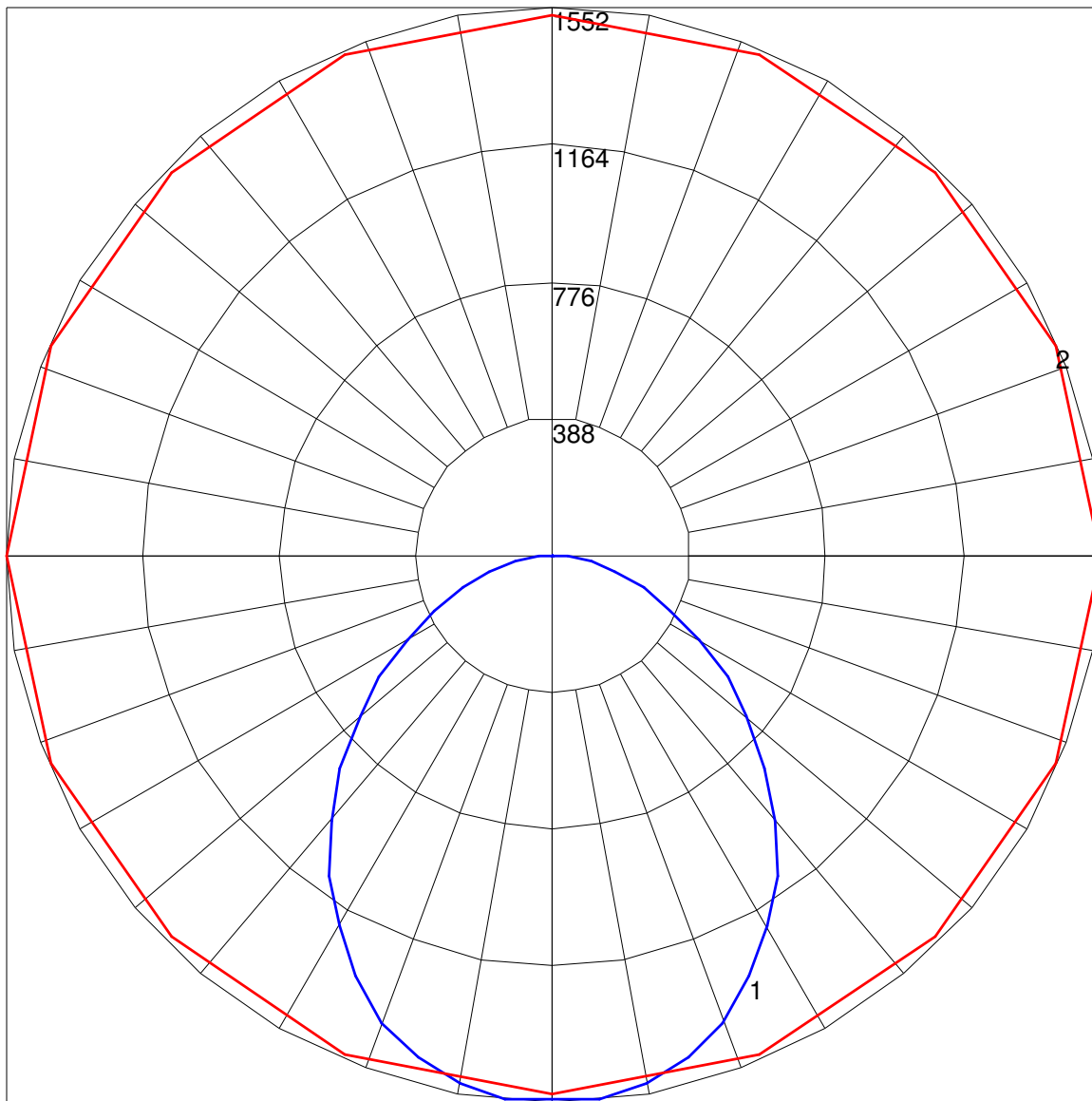
4H	2H	18.7	20.0	19.2	20.5	21.1	20.7	22.0	21.2	22.5	23.0
	3H	20.4	21.5	20.9	22.0	22.6	23.2	24.3	23.7	24.8	25.4
	4H	21.0	22.0	21.5	22.5	23.1	24.4	25.4	24.9	25.9	26.5
	6H	21.4	22.3	22.0	22.9	23.5	25.6	26.5	26.2	27.1	27.7
	8H	21.6	22.4	22.1	23.0	23.6	26.2	27.1	26.8	27.6	28.2
	12H	21.6	22.4	22.2	23.0	23.6	26.9	27.6	27.4	28.2	28.8

8H	4H	21.5	22.3	22.1	22.9	23.5	24.5	25.4	25.1	25.9	26.6
	6H	22.1	22.8	22.7	23.4	24.1	25.9	26.6	26.5	27.2	27.9
	8H	22.4	23.0	23.0	23.6	24.2	26.7	27.3	27.3	27.9	28.6
	12H	22.5	23.1	23.1	23.7	24.4	27.5	28.1	28.1	28.7	29.4

12H	4H	21.6	22.4	22.2	23.0	23.6	24.5	25.3	25.1	25.9	26.5
	6H	22.3	23.0	23.0	23.6	24.3	26.0	26.6	26.6	27.2	27.9
	8H	22.6	23.2	23.2	23.8	24.5	26.7	27.3	27.3	27.9	28.6

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 1552.326 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)