



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-827-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-L26-827-HIA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 2700K 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	2696
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	21.25
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	6179	5586	6055
55	5158	4703	5422
65	3995	3873	4707
75	2842	3203	4007
85	1211	2689	3535

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SLF-2-L26-827-HIA-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	849.727	849.727	849.727	849.727	849.727
5	852.009	846.684	842.880	843.641	839.077
10	836.795	834.512	832.230	836.795	834.512
15	810.169	809.409	812.451	819.298	820.059
20	776.697	779.740	785.826	798.758	803.323
25	724.968	731.815	747.790	765.287	773.655
30	668.675	681.607	708.993	732.576	741.704
35	608.578	622.271	659.546	693.018	705.950
40	538.591	556.849	600.971	645.853	659.546
45	467.844	489.905	538.591	591.842	607.817
50	393.293	424.483	473.169	534.788	552.284
55	330.914	361.343	414.594	483.059	502.837
60	263.210	296.682	355.257	422.201	445.783
65	202.352	235.063	298.964	362.865	387.208
70	149.862	182.573	251.799	311.896	331.675
75	101.176	132.366	204.634	263.210	277.664
80	59.336	95.851	165.837	218.327	232.781
85	23.582	66.183	130.844	182.573	191.702
90	0.000	40.318	101.937	147.580	155.187
95	0.000	28.147	81.397	121.716	128.562
100	0.000	18.257	60.097	97.372	102.698
105	0.000	15.975	51.729	79.115	87.483
110	0.000	9.889	37.275	62.379	69.226
115	0.000	9.129	32.711	52.490	59.336
120	0.000	8.368	25.865	43.361	50.208
125	0.000	6.086	19.779	34.993	40.318
130	0.000	0.000	19.018	31.190	34.233
135	0.000	0.000	12.932	22.822	28.147
140	0.000	0.000	11.411	19.779	22.061
145	0.000	0.000	0.000	15.214	18.257
150	0.000	0.000	0.000	12.932	15.214
155	0.000	0.000	0.000	10.650	10.650
160	0.000	0.000	0.000	9.129	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	6.086	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SLF-2-L26-827-HIA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	310.23	N.A.	11.50
0-30	655.66	N.A.	24.30
0-40	1066.69	N.A.	39.60
0-60	1857.14	N.A.	68.90
0-80	2365.1	N.A.	87.70
0-90	2499.24	N.A.	92.70
10-90	2418.9	N.A.	89.70
20-40	756.46	N.A.	28.10
20-50	1172.85	N.A.	43.50
40-70	1087.62	N.A.	40.30
60-80	507.96	N.A.	18.80
70-80	210.80	N.A.	7.80
80-90	134.13	N.A.	5.00
90-110	130.69	N.A.	4.80
90-120	161.44	N.A.	6.00
90-130	180.12	N.A.	6.70
90-150	194.73	N.A.	7.20
90-180	196.81	N.A.	7.30
110-180	66.11	N.A.	2.50
0-180	2696.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.34
10-20	229.89
20-30	345.43
30-40	411.03
40-50	416.39
50-60	374.06
60-70	297.17
70-80	210.80
80-90	134.13
90-100	80.88
100-110	49.81
110-120	30.75
120-130	18.68
130-140	10.18
140-150	4.43
150-160	1.81
160-170	0.19
170-180	0.07

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SLF-2-L26-827-HIA-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SLF-2-L26-827-HIA-DIM-UNV_.IES

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	15.9	17.4	16.4	17.9	18.4	18.3	19.8	18.8	20.3	20.8
	3H	17.3	18.7	17.8	19.2	19.7	20.5	21.9	21.0	22.4	22.9
	4H	17.8	19.1	18.3	19.6	20.1	21.6	22.9	22.1	23.4	23.9
	6H	18.1	19.3	18.7	19.8	20.4	22.6	23.8	23.1	24.3	24.9
	8H	18.2	19.4	18.7	19.9	20.5	23.1	24.3	23.6	24.8	25.3
	12H	18.3	19.4	18.8	19.9	20.5	23.6	24.7	24.2	25.2	25.8

UGR Viewed Endwise

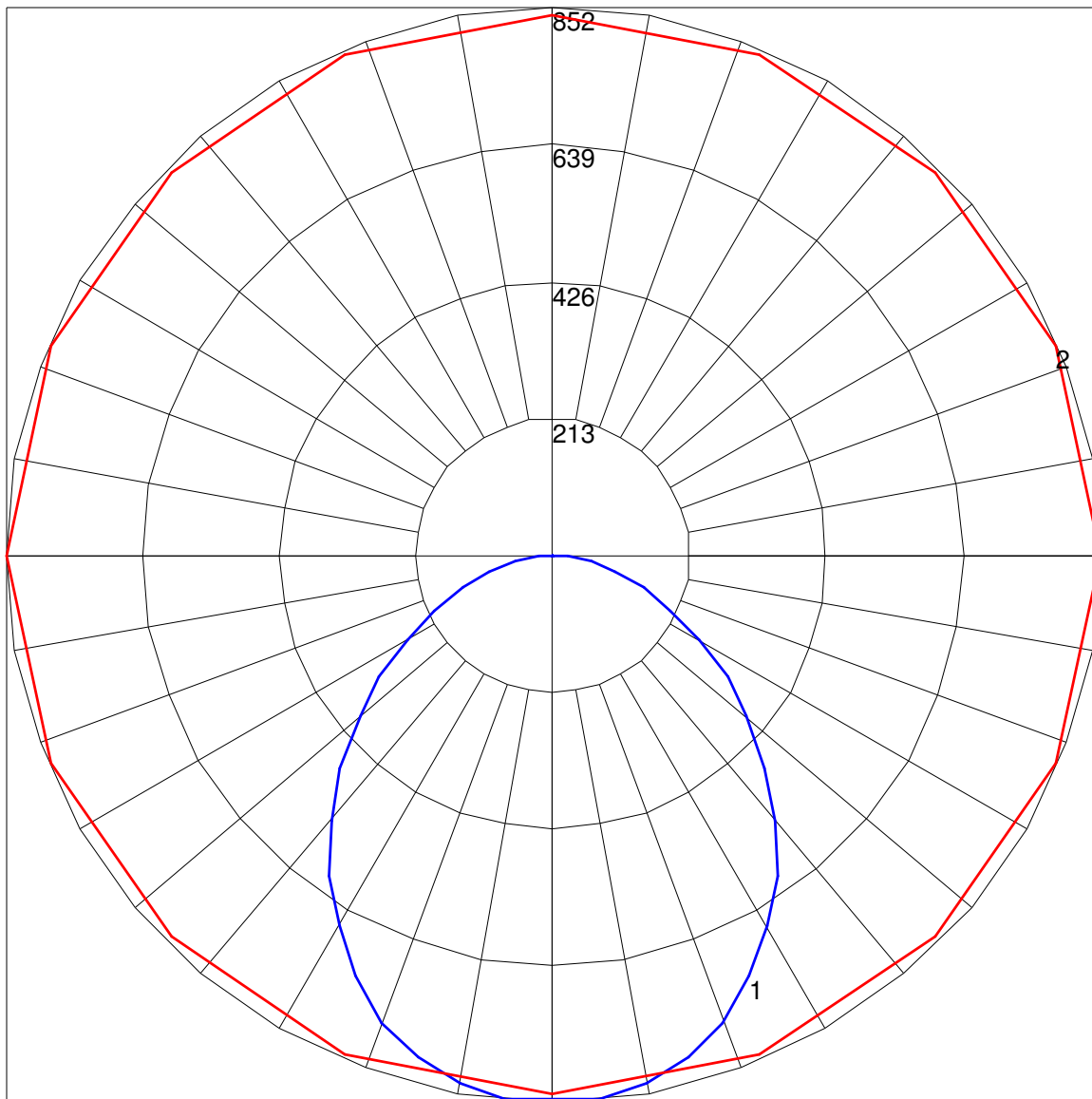
4H	2H	16.6	17.9	17.1	18.4	19.0	18.6	19.9	19.1	20.4	20.9
	3H	18.3	19.4	18.8	19.9	20.5	21.1	22.2	21.6	22.7	23.3
	4H	18.9	19.9	19.4	20.4	21.0	22.3	23.3	22.8	23.8	24.4
	6H	19.3	20.2	19.9	20.8	21.4	23.5	24.4	24.1	25.0	25.6
	8H	19.5	20.3	20.0	20.9	21.5	24.1	25.0	24.7	25.5	26.1
	12H	19.5	20.3	20.1	20.9	21.5	24.8	25.5	25.3	26.1	26.7

8H	4H	19.4	20.2	20.0	20.8	21.4	22.4	23.3	23.0	23.8	24.5
	6H	20.0	20.7	20.6	21.3	22.0	23.8	24.5	24.4	25.1	25.8
	8H	20.3	20.9	20.9	21.5	22.1	24.6	25.2	25.2	25.8	26.5
	12H	20.4	21.0	21.0	21.6	22.3	25.4	26.0	26.0	26.6	27.3

12H	4H	19.5	20.3	20.1	20.9	21.5	22.4	23.2	23.0	23.8	24.4
	6H	20.2	20.9	20.9	21.5	22.2	23.9	24.5	24.5	25.1	25.8
	8H	20.5	21.1	21.1	21.7	22.4	24.6	25.2	25.2	25.8	26.5

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 852.009 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.)