



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-840-HIA-EM10WRM-DIM-UNV\_(EMER MODE).IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 17259.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 06-25-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 2' LED DIRECT/INDIRECT STAIRWELL LIGHT  
 [MORE] WITH FROSTED POLYCARBONATE LENS  
 [LUMCAT] SLF-2-L45-840-HIA-EM10WRM-DIM-UN\_(EM MODE)  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [ \_SEARCH\_SOURCETYPE] LED  
 [ \_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Industrial, Manufacturing, Office, Direct  
 [ \_SEARCH\_MOUNTING] Pendant, Surface, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1388
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	139
Total Luminaire Watts	10
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	3180	2875	3116
55	2654	2421	2791
65	2056	1993	2422
75	1462	1648	2062
85	623	1384	1819

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-840-HIA-EM10WRM-DIM-UNV\_(EMER MODE).IES

## CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	437.313	437.313	437.313	437.313	437.313
5	438.488	435.747	433.790	434.181	431.832
10	430.657	429.483	428.308	430.657	429.483
15	416.955	416.563	418.129	421.653	422.044
20	399.728	401.294	404.427	411.082	413.431
25	373.106	376.630	384.851	393.856	398.162
30	344.134	350.790	364.884	377.021	381.719
35	313.205	320.253	339.436	356.663	363.318
40	277.187	286.583	309.290	332.389	339.436
45	240.777	252.130	277.187	304.592	312.814
50	202.409	218.461	243.517	275.229	284.234
55	170.305	185.966	213.371	248.607	258.786
60	135.461	152.688	182.834	217.286	229.423
65	104.141	120.976	153.862	186.749	199.277
70	77.127	93.962	129.589	160.518	170.697
75	52.070	68.122	105.315	135.461	142.900
80	30.538	49.330	85.348	112.362	119.801
85	12.137	34.061	67.339	93.962	98.660
90	0.000	20.750	52.462	75.952	79.867
95	0.000	14.486	41.891	62.641	66.165
100	0.000	9.396	30.929	50.113	52.853
105	0.000	8.222	26.622	40.717	45.023
110	0.000	5.090	19.184	32.104	35.627
115	0.000	4.698	16.835	27.014	30.538
120	0.000	4.307	13.311	22.316	25.839
125	0.000	3.132	10.179	18.009	20.750
130	0.000	0.000	9.788	16.052	17.618
135	0.000	0.000	6.656	11.745	14.486
140	0.000	0.000	5.873	10.179	11.354
145	0.000	0.000	0.000	7.830	9.396
150	0.000	0.000	0.000	6.656	7.830
155	0.000	0.000	0.000	5.481	5.481
160	0.000	0.000	0.000	4.698	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	3.132	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SLF-2-L45-840-HIA-EM10WRM-DIM-UNV\_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	159.66	N.A.	11.50
0-30	337.43	N.A.	24.30
0-40	548.97	N.A.	39.60
0-60	955.78	N.A.	68.90
0-80	1217.2	N.A.	87.70
0-90	1286.24	N.A.	92.70
10-90	1244.89	N.A.	89.70
20-40	389.31	N.A.	28.10
20-50	603.61	N.A.	43.50
40-70	559.74	N.A.	40.30
60-80	261.42	N.A.	18.80
70-80	108.49	N.A.	7.80
80-90	69.03	N.A.	5.00
90-110	67.26	N.A.	4.80
90-120	83.09	N.A.	6.00
90-130	92.70	N.A.	6.70
90-150	100.22	N.A.	7.20
90-180	101.29	N.A.	7.30
110-180	34.03	N.A.	2.50
0-180	1387.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	41.35
10-20	118.31
20-30	177.78
30-40	211.54
40-50	214.30
50-60	192.51
60-70	152.94
70-80	108.49
80-90	69.03
90-100	41.63
100-110	25.63
110-120	15.83
120-130	9.61
130-140	5.24
140-150	2.28
150-160	0.93
160-170	0.10
170-180	0.04

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-840-HIA-EM10WRM-DIM-UNV\_(EMER MODE).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	51
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	42	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	38	31	26	37	31	26	35	30	25	24
10	51	38	30	25	49	37	30	24	36	29	24	34	28	24	33	27	23	21

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-840-HIA-EM10WRM-DIM-UNV\_(EMER MODE).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	12.8	14.3	13.3	14.8	15.3	16.0	17.5	16.5	18.0	18.5
	3H	14.0	15.4	14.5	15.9	16.4	18.2	19.6	18.7	20.1	20.6
	4H	14.4	15.7	14.9	16.2	16.7	19.3	20.6	19.8	21.1	21.6
	6H	14.6	15.8	15.2	16.3	16.9	20.3	21.5	20.8	22.0	22.6
	8H	14.7	15.8	15.2	16.4	16.9	20.8	22.0	21.3	22.5	23.0
	12H	14.7	15.8	15.2	16.3	16.9	21.3	22.4	21.9	22.9	23.5

### UGR Viewed Endwise

4H	2H	13.7	15.0	14.2	15.5	16.1	16.3	17.6	16.8	18.1	18.6
	3H	15.2	16.3	15.7	16.8	17.4	18.8	19.9	19.3	20.4	21.0
	4H	15.7	16.7	16.2	17.2	17.8	20.0	21.0	20.5	21.5	22.1
	6H	16.0	16.9	16.6	17.5	18.1	21.2	22.1	21.8	22.7	23.3
	8H	16.1	16.9	16.7	17.5	18.1	21.8	22.7	22.4	23.2	23.8
	12H	16.1	16.9	16.7	17.5	18.1	22.5	23.2	23.0	23.8	24.4

8H	4H	16.4	17.3	17.0	17.8	18.4	20.1	21.0	20.7	21.5	22.2
	6H	16.9	17.6	17.5	18.2	18.9	21.5	22.2	22.1	22.8	23.5
	8H	17.1	17.7	17.7	18.4	19.0	22.3	22.9	22.9	23.5	24.2
	12H	17.2	17.8	17.8	18.4	19.1	23.1	23.7	23.7	24.3	25.0

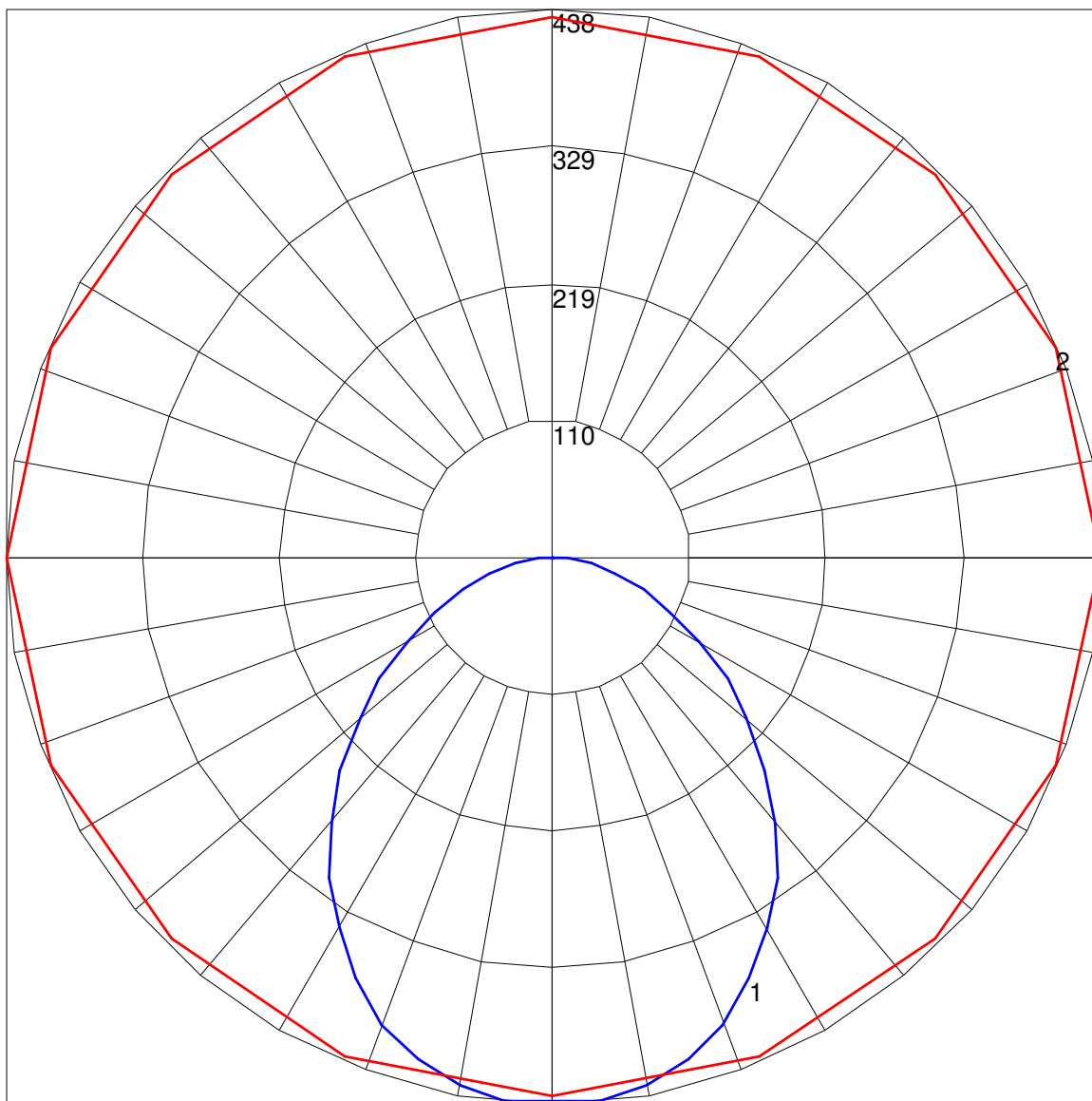
12H	4H	16.6	17.4	17.2	18.0	18.6	20.1	20.9	20.7	21.5	22.1
	6H	17.3	17.9	17.9	18.5	19.2	21.6	22.2	22.2	22.8	23.5
	8H	17.5	18.1	18.1	18.7	19.4	22.3	22.9	22.9	23.5	24.2

Maximum UGR = 25.0

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-840-HIA-EM10WRM-DIM-UNV\_(EMER MODE).IES

## POLAR GRAPH



Maximum Candela = 438.488 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.)