

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-835-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] 08-31-2023  
[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-L26-835-HIA-EM10WRM-DIM-UNV (EMER MODE)  
[LAMPCAT] HLM 80 CRI 3500K CCT  
[ \_SEARCH\_SOURCE TYPE] 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	1338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
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	3067	2773	3006
55	2561	2335	2692
65	1983	1923	2337
75	1411	1590	1989
85	601	1335	1755

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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	421.835	421.835	421.835	421.835	421.835
5	422.968	420.324	418.436	418.814	416.548
10	415.415	414.282	413.149	415.415	414.282
15	402.197	401.819	403.330	406.729	407.106
20	385.580	387.091	390.112	396.532	398.798
25	359.900	363.299	371.230	379.916	384.070
30	331.954	338.374	351.970	363.677	368.209
35	302.120	308.918	327.422	344.039	350.459
40	267.376	276.440	298.343	320.625	327.422
45	232.255	243.206	267.376	293.812	301.742
50	195.245	210.729	234.898	265.488	274.174
55	164.278	179.384	205.819	239.808	249.627
60	130.667	147.283	176.362	209.596	221.303
65	100.455	116.694	148.416	180.139	192.224
70	74.397	90.636	125.002	154.836	164.655
75	50.227	65.711	101.588	130.667	137.842
80	29.457	47.584	82.328	108.385	115.561
85	11.707	32.856	64.956	90.636	95.168
90	0.000	20.015	50.605	73.264	77.041
95	0.000	13.973	40.409	60.424	63.823
100	0.000	9.064	29.834	48.339	50.983
105	0.000	7.931	25.680	39.276	43.430
110	0.000	4.909	18.505	30.967	34.366
115	0.000	4.532	16.239	26.058	29.457
120	0.000	4.154	12.840	21.526	24.925
125	0.000	3.021	9.819	17.372	20.015
130	0.000	0.000	9.441	15.484	16.994
135	0.000	0.000	6.420	11.329	13.973
140	0.000	0.000	5.665	9.819	10.952
145	0.000	0.000	0.000	7.553	9.064
150	0.000	0.000	0.000	6.420	7.553
155	0.000	0.000	0.000	5.287	5.287
160	0.000	0.000	0.000	4.532	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	3.021	0.000
180	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SLF-2-L26-835-HIA-EM10WRM-DIM-UNV (EMER MODE)\_IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	154.01	N.A.	11.50
0-30	325.49	N.A.	24.30
0-40	529.54	N.A.	39.60
0-60	921.95	N.A.	68.90
0-80	1174.12	N.A.	87.70
0-90	1240.71	N.A.	92.70
10-90	1200.83	N.A.	89.70
20-40	375.53	N.A.	28.10
20-50	582.24	N.A.	43.50
40-70	539.93	N.A.	40.30
60-80	252.17	N.A.	18.80
70-80	104.65	N.A.	7.80
80-90	66.59	N.A.	5.00
90-110	64.88	N.A.	4.80
90-120	80.15	N.A.	6.00
90-130	89.42	N.A.	6.70
90-150	96.67	N.A.	7.20
90-180	97.70	N.A.	7.30
110-180	32.82	N.A.	2.50
0-180	1338.41	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	39.88
10-20	114.13
20-30	171.48
30-40	204.05
40-50	206.71
50-60	185.70
60-70	147.52
70-80	104.65
80-90	66.59
90-100	40.15
100-110	24.73
110-120	15.27
120-130	9.27
130-140	5.05
140-150	2.20
150-160	0.90
160-170	0.09
170-180	0.04

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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	87	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	12.7	14.2	13.2	14.7	15.2	15.9	17.4	16.4	17.9	18.4
	3H	13.9	15.3	14.4	15.8	16.3	18.1	19.5	18.6	20.0	20.5
	4H	14.3	15.6	14.8	16.1	16.6	19.2	20.5	19.7	21.0	21.5
	6H	14.5	15.7	15.1	16.2	16.8	20.2	21.4	20.7	21.9	22.5
	8H	14.6	15.7	15.1	16.3	16.8	20.7	21.9	21.2	22.4	22.9
	12H	14.6	15.7	15.1	16.2	16.8	21.2	22.3	21.8	22.8	23.4

### UGR Viewed Endwise

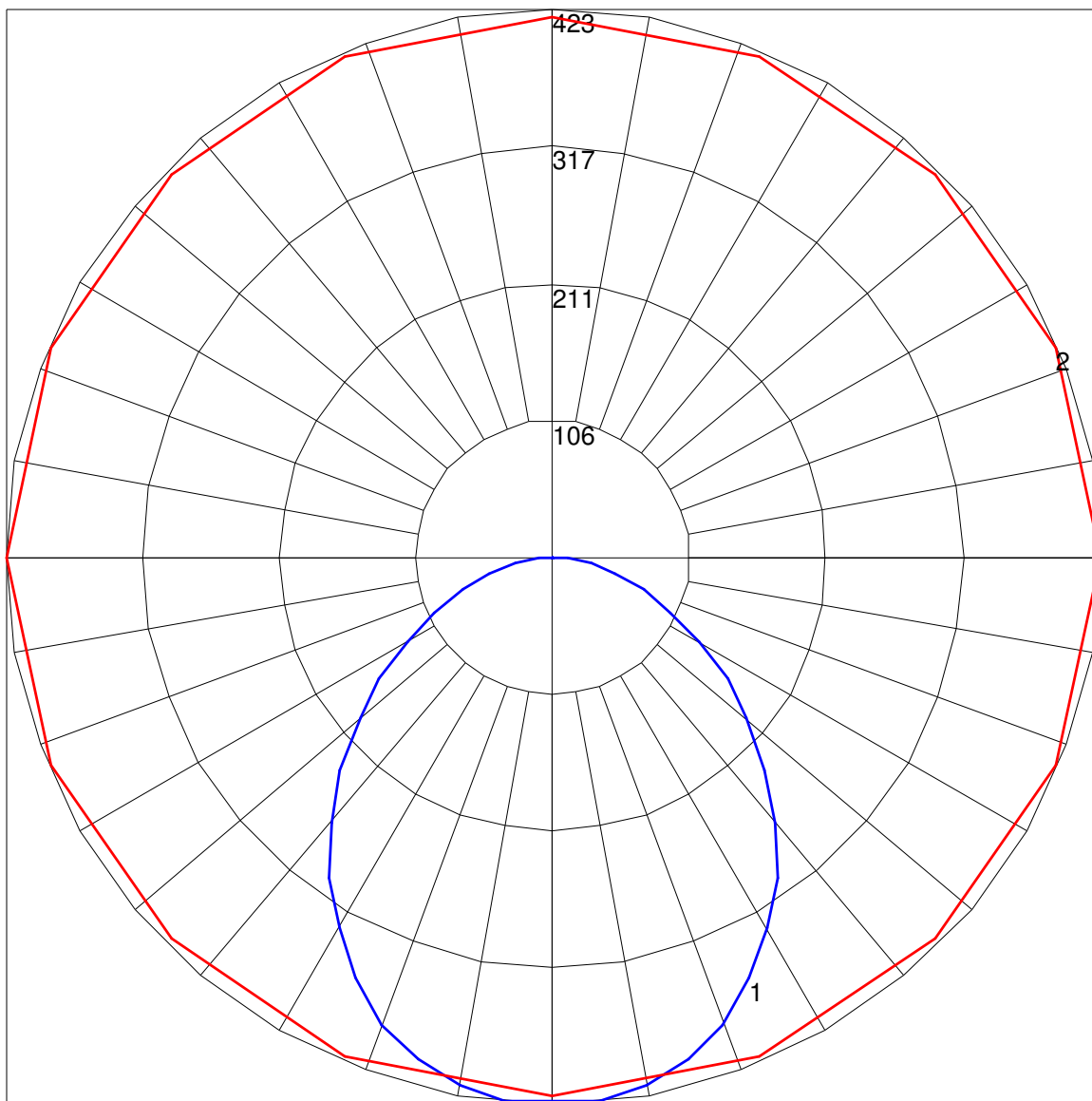
4H	2H	13.6	14.9	14.1	15.4	16.0	16.2	17.5	16.7	18.0	18.5
	3H	15.1	16.2	15.6	16.7	17.3	18.7	19.8	19.2	20.3	20.9
	4H	15.6	16.6	16.1	17.1	17.7	19.9	20.9	20.4	21.4	22.0
	6H	15.9	16.8	16.5	17.4	18.0	21.1	22.0	21.7	22.6	23.2
	8H	16.0	16.8	16.6	17.4	18.0	21.7	22.6	22.3	23.1	23.7
	12H	16.0	16.8	16.6	17.4	18.0	22.4	23.1	22.9	23.7	24.3

8H	4H	16.3	17.2	16.9	17.7	18.3	20.0	20.9	20.6	21.4	22.1
	6H	16.8	17.5	17.4	18.1	18.8	21.4	22.1	22.0	22.7	23.4
	8H	17.0	17.6	17.6	18.3	18.9	22.2	22.8	22.8	23.4	24.1
	12H	17.1	17.7	17.7	18.3	19.0	23.0	23.6	23.6	24.2	24.9

12H	4H	16.5	17.3	17.1	17.9	18.5	20.0	20.8	20.6	21.4	22.0
	6H	17.2	17.8	17.8	18.4	19.1	21.5	22.1	22.1	22.7	23.4
	8H	17.4	18.0	18.0	18.6	19.3	22.2	22.8	22.8	23.4	24.1

Maximum UGR = 24.9

POLAR GRAPH



Maximum Candela = 422.968 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.)