

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-835-HIA-DRV-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  
[ISSUE DATE] 08-30-2023  
[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-DRV-UNV  
[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	2911
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	21.75
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	6672	6031	6538
55	5569	5078	5855
65	4314	4182	5082
75	3068	3458	4326
85	1307	2904	3817

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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	917.491	917.491	917.491	917.491	917.491
5	919.955	914.205	910.098	910.919	905.991
10	903.527	901.063	898.599	903.527	901.063
15	874.778	873.957	877.243	884.635	885.456
20	838.637	841.923	848.494	862.458	867.386
25	782.783	790.175	807.425	826.317	835.352
30	722.000	735.964	765.534	790.997	800.853
35	657.111	671.896	712.144	748.285	762.248
40	581.543	601.256	648.897	697.359	712.144
45	505.154	528.974	581.543	639.040	656.289
50	424.658	458.335	510.903	577.436	596.328
55	357.304	390.159	447.657	521.581	542.938
60	284.200	320.341	383.588	455.870	481.333
65	218.489	253.809	322.806	391.802	418.087
70	161.813	197.133	271.879	336.769	358.125
75	109.245	142.922	220.953	284.200	299.807
80	64.068	103.495	179.063	235.738	251.345
85	25.463	71.461	141.279	197.133	206.990
90	0.000	43.534	110.066	159.349	167.563
95	0.000	30.391	87.889	131.422	138.815
100	0.000	19.713	64.890	105.138	110.887
105	0.000	17.249	55.854	85.424	94.460
110	0.000	10.678	40.248	67.354	74.746
115	0.000	9.857	35.320	56.676	64.068
120	0.000	9.035	27.927	46.819	54.212
125	0.000	6.571	21.356	37.784	43.534
130	0.000	0.000	20.535	33.677	36.962
135	0.000	0.000	13.964	24.642	30.391
140	0.000	0.000	12.321	21.356	23.820
145	0.000	0.000	0.000	16.428	19.713
150	0.000	0.000	0.000	13.964	16.428
155	0.000	0.000	0.000	11.499	11.499
160	0.000	0.000	0.000	9.857	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	6.571	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	334.97	N.A.	11.50
0-30	707.94	N.A.	24.30
0-40	1151.75	N.A.	39.60
0-60	2005.24	N.A.	68.90
0-80	2553.71	N.A.	87.70
0-90	2698.54	N.A.	92.70
10-90	2611.8	N.A.	89.70
20-40	816.79	N.A.	28.10
20-50	1266.38	N.A.	43.50
40-70	1174.35	N.A.	40.30
60-80	548.47	N.A.	18.80
70-80	227.61	N.A.	7.80
80-90	144.83	N.A.	5.00
90-110	141.12	N.A.	4.80
90-120	174.32	N.A.	6.00
90-130	194.49	N.A.	6.70
90-150	210.26	N.A.	7.20
90-180	212.50	N.A.	7.30
110-180	71.39	N.A.	2.50
0-180	2911.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	86.74
10-20	248.22
20-30	372.98
30-40	443.81
40-50	449.60
50-60	403.89
60-70	320.86
70-80	227.61
80-90	144.83
90-100	87.33
100-110	53.78
110-120	33.20
120-130	20.17
130-140	10.99
140-150	4.78
150-160	1.96
160-170	0.20
170-180	0.08

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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	15.4	16.9	15.9	17.4	17.9	18.6	20.1	19.1	20.6	21.1
	3H	16.6	18.0	17.1	18.5	19.0	20.8	22.2	21.3	22.7	23.2
	4H	17.0	18.3	17.5	18.8	19.3	21.9	23.2	22.4	23.7	24.2
	6H	17.2	18.4	17.8	18.9	19.5	22.9	24.1	23.4	24.6	25.2
	8H	17.3	18.4	17.8	19.0	19.5	23.4	24.6	23.9	25.1	25.6
	12H	17.3	18.4	17.8	18.9	19.5	23.9	25.0	24.5	25.5	26.1

UGR Viewed Endwise

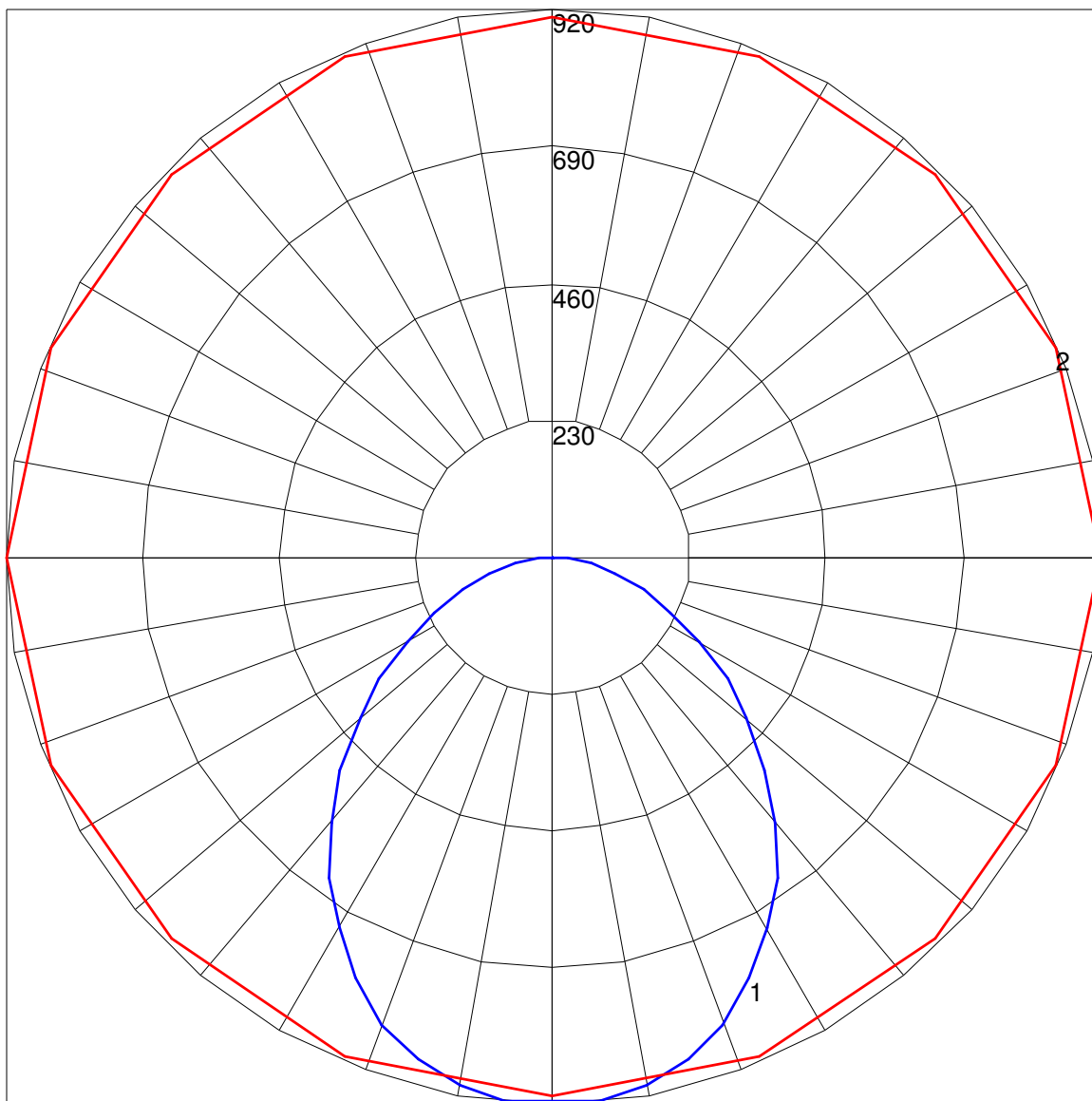
4H	2H	16.3	17.6	16.8	18.1	18.7	18.9	20.2	19.4	20.7	21.2
	3H	17.8	18.9	18.3	19.4	20.0	21.4	22.5	21.9	23.0	23.6
	4H	18.3	19.3	18.8	19.8	20.4	22.6	23.6	23.1	24.1	24.7
	6H	18.6	19.5	19.2	20.1	20.7	23.8	24.7	24.4	25.3	25.9
	8H	18.7	19.5	19.3	20.1	20.7	24.4	25.3	25.0	25.8	26.4
	12H	18.7	19.5	19.3	20.1	20.7	25.1	25.8	25.6	26.4	27.0

8H	4H	19.0	19.9	19.6	20.4	21.0	22.7	23.6	23.3	24.1	24.8
	6H	19.5	20.2	20.1	20.8	21.5	24.1	24.8	24.7	25.4	26.1
	8H	19.7	20.3	20.3	21.0	21.6	24.9	25.5	25.5	26.1	26.8
	12H	19.8	20.4	20.4	21.0	21.7	25.7	26.3	26.3	26.9	27.6

12H	4H	19.2	20.0	19.8	20.6	21.2	22.7	23.5	23.3	24.1	24.7
	6H	19.9	20.5	20.5	21.1	21.8	24.2	24.8	24.8	25.4	26.1
	8H	20.1	20.7	20.7	21.3	22.0	24.9	25.5	25.5	26.1	26.8

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 919.955 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.)