

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-940-HIA-(L18)-DIM1-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] 6-7-2023  
[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-L26-940-HIA-(L18)-DIM1-UNV  
[LAMPCAT] HLM 90 CRI 4000K 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	1602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	14.02
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	3672	3319	3598
55	3065	2795	3222
65	2374	2301	2797
75	1689	1903	2381
85	719	1598	2101

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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	504.919	504.919	504.919	504.919	504.919
5	506.275	503.111	500.851	501.303	498.591
10	497.235	495.879	494.523	497.235	495.879
15	481.414	480.962	482.770	486.838	487.290
20	461.524	463.332	466.949	474.633	477.345
25	430.786	434.854	444.347	454.744	459.716
30	397.336	405.020	421.293	435.306	440.731
35	361.625	369.762	391.911	411.801	419.485
40	320.038	330.887	357.105	383.775	391.911
45	277.999	291.108	320.038	351.681	361.173
50	233.700	252.234	281.164	317.778	328.175
55	196.634	214.715	246.357	287.040	298.793
60	156.403	176.292	211.099	250.878	264.891
65	120.240	139.678	177.648	215.619	230.084
70	89.050	108.488	149.622	185.333	197.086
75	60.120	78.654	121.597	156.403	164.992
80	35.258	56.956	98.543	129.733	138.322
85	14.013	39.327	77.749	108.488	113.912
90	0.000	23.958	60.572	87.694	92.214
95	0.000	16.725	48.367	72.325	76.393
100	0.000	10.849	35.710	57.860	61.024
105	0.000	9.493	30.738	47.011	51.984
110	0.000	5.876	22.150	37.067	41.135
115	0.000	5.424	19.437	31.190	35.258
120	0.000	4.972	15.369	25.766	29.834
125	0.000	3.616	11.753	20.793	23.958
130	0.000	0.000	11.301	18.533	20.341
135	0.000	0.000	7.685	13.561	16.725
140	0.000	0.000	6.780	11.753	13.109
145	0.000	0.000	0.000	9.041	10.849
150	0.000	0.000	0.000	7.685	9.041
155	0.000	0.000	0.000	6.328	6.328
160	0.000	0.000	0.000	5.424	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	3.616	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	184.34	N.A.	11.50
0-30	389.60	N.A.	24.30
0-40	633.84	N.A.	39.60
0-60	1103.54	N.A.	68.90
0-80	1405.38	N.A.	87.70
0-90	1485.08	N.A.	92.70
10-90	1437.34	N.A.	89.70
20-40	449.50	N.A.	28.10
20-50	696.92	N.A.	43.50
40-70	646.28	N.A.	40.30
60-80	301.84	N.A.	18.80
70-80	125.26	N.A.	7.80
80-90	79.70	N.A.	5.00
90-110	77.66	N.A.	4.80
90-120	95.93	N.A.	6.00
90-130	107.03	N.A.	6.70
90-150	115.71	N.A.	7.20
90-180	116.94	N.A.	7.30
110-180	39.29	N.A.	2.50
0-180	1602.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	47.74
10-20	136.60
20-30	205.26
30-40	244.24
40-50	247.42
50-60	222.27
60-70	176.58
70-80	125.26
80-90	79.70
90-100	48.06
100-110	29.60
110-120	18.27
120-130	11.10
130-140	6.05
140-150	2.63
150-160	1.08
160-170	0.11
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	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	13.3	14.8	13.8	15.3	15.8	16.5	18.0	17.0	18.5	19.0
	3H	14.5	15.9	15.0	16.4	16.9	18.7	20.1	19.2	20.6	21.1
	4H	14.9	16.2	15.4	16.7	17.2	19.8	21.1	20.3	21.6	22.1
	6H	15.1	16.4	15.7	16.8	17.4	20.8	22.0	21.3	22.5	23.1
	8H	15.2	16.3	15.7	16.9	17.4	21.3	22.5	21.8	23.0	23.5
	12H	15.2	16.3	15.7	16.8	17.4	21.8	22.9	22.4	23.4	24.0

### UGR Viewed Endwise

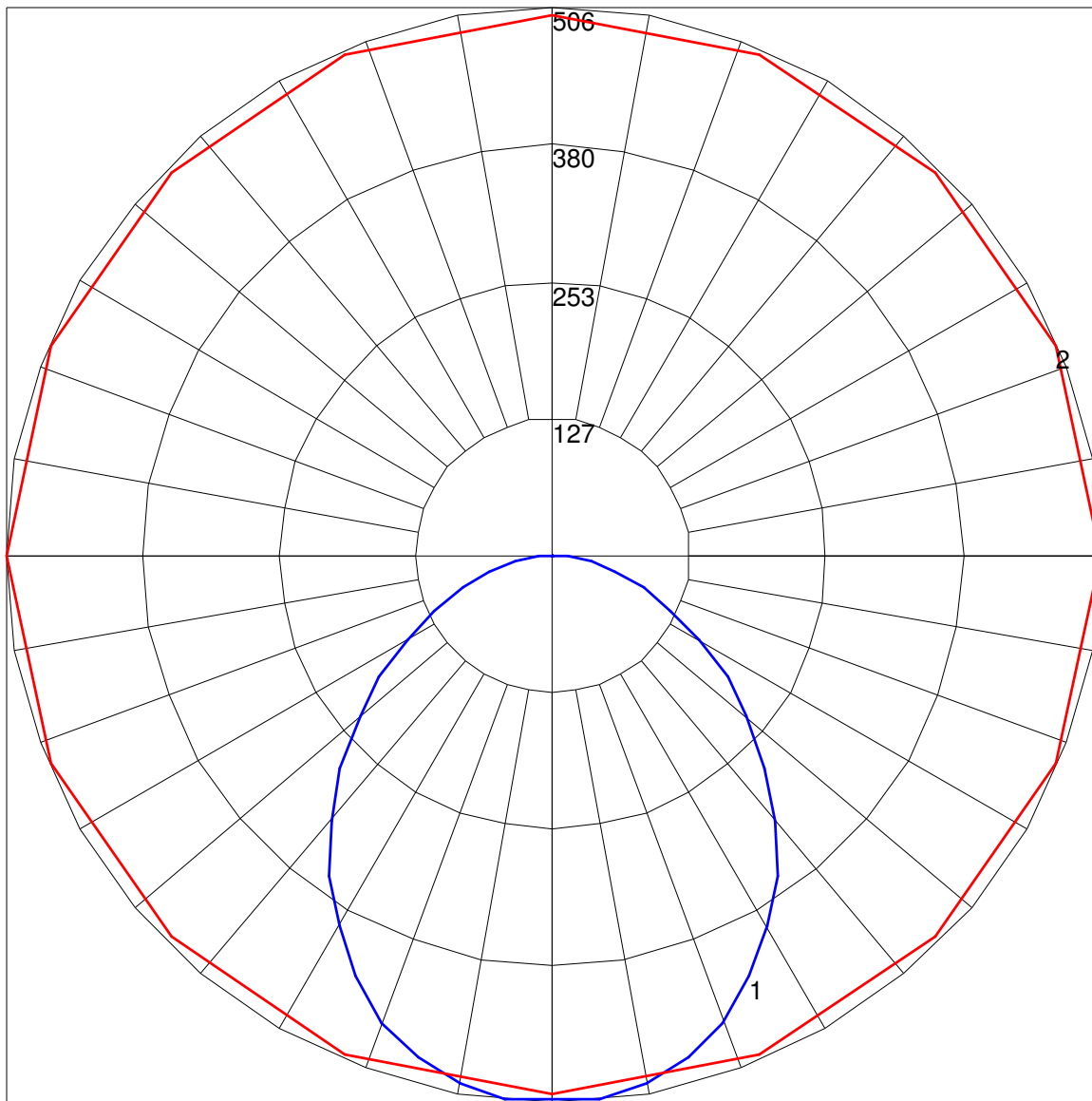
4H	2H	14.2	15.5	14.7	16.0	16.6	16.8	18.1	17.3	18.6	19.1
	3H	15.7	16.8	16.2	17.3	17.9	19.3	20.4	19.8	20.9	21.5
	4H	16.2	17.2	16.7	17.7	18.3	20.5	21.5	21.0	22.0	22.6
	6H	16.5	17.4	17.1	18.0	18.6	21.7	22.6	22.3	23.2	23.8
	8H	16.6	17.4	17.2	18.0	18.6	22.3	23.2	22.9	23.7	24.3
	12H	16.6	17.4	17.2	18.0	18.6	23.0	23.7	23.5	24.3	24.9

8H	4H	16.9	17.8	17.5	18.3	19.0	20.6	21.5	21.2	22.0	22.7
	6H	17.4	18.1	18.0	18.7	19.4	22.0	22.7	22.6	23.3	24.0
	8H	17.6	18.2	18.2	18.9	19.5	22.8	23.4	23.4	24.0	24.7
	12H	17.7	18.3	18.3	18.9	19.6	23.6	24.2	24.2	24.8	25.5

12H	4H	17.1	17.9	17.7	18.5	19.1	20.6	21.4	21.2	22.0	22.6
	6H	17.8	18.4	18.4	19.0	19.7	22.1	22.7	22.7	23.3	24.0
	8H	18.0	18.6	18.6	19.2	19.9	22.8	23.4	23.4	24.0	24.7

Maximum UGR = 25.5

POLAR GRAPH



Maximum Candela = 506.275 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.)