



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-4-L26-940-HIA-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM BALLABS TEST NO. 20114.0  
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC  
 [ISSUE DATE] 11-04-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836  
 [LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE  
 [LUMCAT] SLF-4-L26-940-HIA-DRV-UNV  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LAMPCAT] HLM 90 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	2461
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	20.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.06 ft
Luminous Width (90-270)	0.47 ft
Luminous Height	0.23 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3484	2883	2958
55	2949	2471	2624
65	2372	2088	2250
75	1666	1673	1894
85	509	1346	1657

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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	794.730	794.730	794.730	794.730	794.730
5	803.210	791.499	788.269	787.461	787.057
10	786.249	777.365	775.346	777.365	775.346
15	762.020	755.155	758.385	762.020	761.212
20	726.079	720.830	732.137	738.598	741.021
25	686.504	679.639	695.792	710.734	711.945
30	638.449	634.411	655.410	677.216	678.024
35	584.336	582.317	608.566	636.834	640.468
40	526.993	521.743	555.665	589.990	597.663
45	461.169	455.516	500.341	539.512	551.626
50	390.500	392.115	445.420	486.610	503.975
55	323.869	333.964	389.288	433.305	452.689
60	259.660	277.832	335.176	382.423	399.384
65	199.086	221.701	285.505	329.926	344.867
70	142.551	169.203	236.238	281.467	293.582
75	92.476	120.744	186.971	236.642	245.122
80	48.863	82.784	146.993	196.259	203.125
85	12.922	53.305	112.264	160.723	168.395
90	1.615	33.518	87.226	130.840	140.531
95	0.404	19.787	65.824	103.783	115.090
100	0.000	11.711	47.651	80.361	91.669
105	0.000	8.077	35.133	60.978	73.093
110	0.000	6.057	27.864	49.671	59.766
115	0.000	5.250	20.999	39.979	47.651
120	0.000	4.846	17.768	32.710	38.363
125	0.000	3.231	12.922	25.845	30.691
130	0.000	2.827	10.499	19.787	23.422
135	0.000	2.019	8.077	15.749	18.172
140	0.000	2.019	6.057	12.115	14.538
145	0.000	0.808	5.250	9.692	10.903
150	0.000	0.000	4.846	8.480	9.692
155	0.000	0.000	3.231	6.057	7.673
160	0.000	0.000	2.827	4.038	5.250
165	0.000	0.000	0.000	2.827	3.231
170	0.000	0.000	0.000	0.000	2.019
175	0.000	0.000	0.000	0.000	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	289.07	N.A.	11.70
0-30	609.99	N.A.	24.80
0-40	991.25	N.A.	40.30
0-60	1723.83	N.A.	70.00
0-80	2189.62	N.A.	89.00
0-90	2306.07	N.A.	93.70
10-90	2231.02	N.A.	90.60
20-40	702.17	N.A.	28.50
20-50	1088.65	N.A.	44.20
40-70	1008.00	N.A.	41.00
60-80	465.80	N.A.	18.90
70-80	190.37	N.A.	7.70
80-90	116.45	N.A.	4.70
90-110	106.84	N.A.	4.30
90-120	129.72	N.A.	5.30
90-130	142.89	N.A.	5.80
90-150	153.29	N.A.	6.20
90-180	155.25	N.A.	6.30
110-180	48.41	N.A.	2.00
0-180	2461.32	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	75.06
10-20	214.02
20-30	320.91
30-40	381.26
40-50	386.48
50-60	346.10
60-70	275.43
70-80	190.37
80-90	116.45
90-100	68.40
100-110	38.44
110-120	22.88
120-130	13.17
130-140	6.92
140-150	3.48
150-160	1.58
160-170	0.37
170-180	0.01

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	71	67	72	68	65	62
3	88	77	68	61	84	74	67	60	71	64	58	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	55	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	36	31	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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**UGR TABLE - CORRECTED**

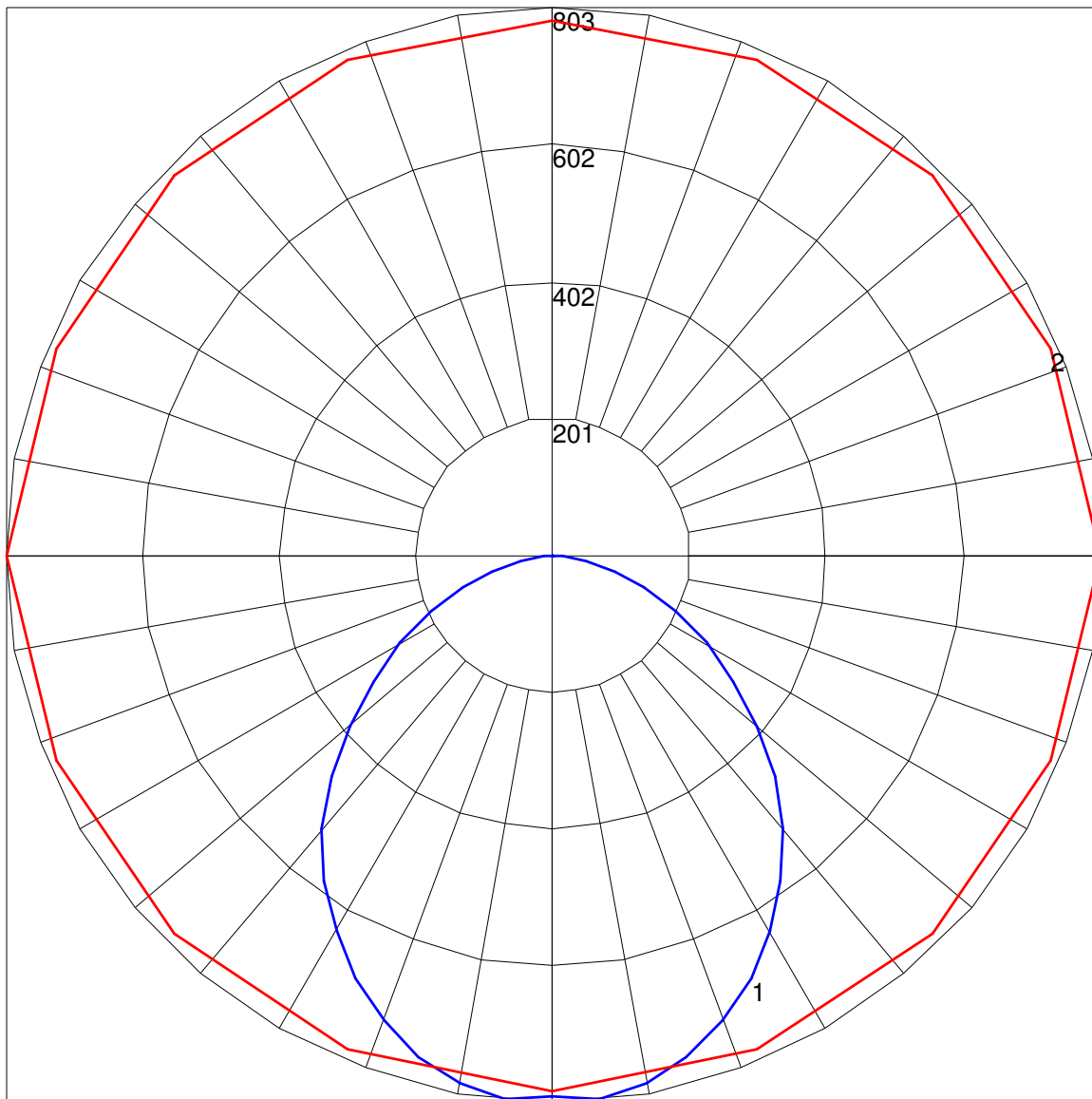
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	12.9	14.5	13.4	14.9	15.4	16.0	17.6	16.5	18.0	18.5
	3H	14.2	15.6	14.6	16.0	16.5	18.3	19.7	18.8	20.2	20.7
	4H	14.5	15.8	15.0	16.3	16.8	19.4	20.7	19.9	21.2	21.7
	6H	14.7	15.9	15.2	16.4	16.9	20.4	21.7	20.9	22.1	22.7
	8H	14.7	15.9	15.3	16.4	17.0	21.0	22.2	21.5	22.7	23.2
	12H	14.7	15.9	15.3	16.4	16.9	21.6	22.7	22.1	23.2	23.8
4H	2H	13.9	15.2	14.4	15.7	16.2	16.4	17.7	16.9	18.2	18.7
	3H	15.4	16.5	15.9	17.0	17.6	18.9	20.0	19.4	20.5	21.0
	4H	15.8	16.9	16.4	17.4	17.9	20.1	21.1	20.6	21.6	22.2
	6H	16.1	17.0	16.7	17.6	18.1	21.4	22.3	21.9	22.8	23.4
	8H	16.2	17.0	16.7	17.6	18.2	22.0	22.9	22.6	23.4	24.0
	12H	16.2	16.9	16.8	17.5	18.1	22.7	23.5	23.3	24.1	24.7
8H	4H	16.6	17.4	17.1	18.0	18.6	20.3	21.1	20.8	21.6	22.2
	6H	17.0	17.7	17.6	18.3	18.9	21.7	22.4	22.2	23.0	23.6
	8H	17.1	17.8	17.7	18.4	19.0	22.5	23.1	23.1	23.7	24.3
	12H	17.2	17.8	17.8	18.4	19.0	23.3	23.9	23.9	24.5	25.2
12H	4H	16.8	17.5	17.3	18.1	18.7	20.2	21.0	20.8	21.6	22.2
	6H	17.3	18.0	17.9	18.5	19.2	21.7	22.4	22.3	22.9	23.6
	8H	17.5	18.1	18.1	18.7	19.4	22.5	23.1	23.1	23.7	24.4

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 803.21 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.)