

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-4-L26-940-HIA-(L20)-DIM1-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

[ISSUEDATE] 6-7-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22"ARRAYS 49"SURFACE MOUNT LUMINAIRE

[LUMCAT] SLF-4-L26-940-HIA-(L20)-DIM1-UNV

[MORE] WHITE FLAT REFLECTOR w/FROSTED ACRYLIC LENS

[MORE] ADVANCE #XI040C110V054BST1 @ 950mA

[LAMPCAT] HLM2256\_5630 REV A #10560223

[\_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	1761
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	14.64
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	2493	2063	2116
55	2110	1768	1877
65	1697	1494	1610
75	1192	1197	1355
85	364	963	1185

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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>
<b>0</b>	568.605	568.605	568.605	568.605	568.605
<b>5</b>	574.672	566.294	563.982	563.404	563.115
<b>10</b>	562.538	556.181	554.737	556.181	554.737
<b>15</b>	545.202	540.290	542.602	545.202	544.624
<b>20</b>	519.488	515.732	523.822	528.444	530.178
<b>25</b>	491.173	486.261	497.818	508.509	509.375
<b>30</b>	456.791	453.902	468.926	484.528	485.106
<b>35</b>	418.075	416.630	435.410	455.635	458.236
<b>40</b>	377.048	373.291	397.561	422.120	427.609
<b>45</b>	329.953	325.908	357.978	386.004	394.672
<b>50</b>	279.391	280.546	318.685	348.155	360.579
<b>55</b>	231.718	238.941	278.524	310.017	323.885
<b>60</b>	185.779	198.781	239.808	273.612	285.747
<b>65</b>	142.440	158.620	204.270	236.052	246.742
<b>70</b>	101.991	121.060	169.021	201.381	210.049
<b>75</b>	66.164	86.389	133.772	169.310	175.378
<b>80</b>	34.960	59.230	105.169	140.418	145.329
<b>85</b>	9.246	38.138	80.321	114.992	120.482
<b>90</b>	1.156	23.981	62.408	93.612	100.546
<b>95</b>	0.289	14.157	47.095	74.254	82.344
<b>100</b>	0.000	8.379	34.093	57.496	65.586
<b>105</b>	0.000	5.779	25.137	43.628	52.295
<b>110</b>	0.000	4.334	19.936	35.538	42.761
<b>115</b>	0.000	3.756	15.024	28.604	34.093
<b>120</b>	0.000	3.467	12.713	23.403	27.448
<b>125</b>	0.000	2.311	9.246	18.491	21.958
<b>130</b>	0.000	2.022	7.512	14.157	16.758
<b>135</b>	0.000	1.445	5.779	11.268	13.002
<b>140</b>	0.000	1.445	4.334	8.668	10.401
<b>145</b>	0.000	0.578	3.756	6.934	7.801
<b>150</b>	0.000	0.000	3.467	6.067	6.934
<b>155</b>	0.000	0.000	2.311	4.334	5.490
<b>160</b>	0.000	0.000	2.022	2.889	3.756
<b>165</b>	0.000	0.000	0.000	2.022	2.311
<b>170</b>	0.000	0.000	0.000	0.000	1.445
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	206.82	N.A.	11.70
0-30	436.43	N.A.	24.80
0-40	709.21	N.A.	40.30
0-60	1233.35	N.A.	70.00
0-80	1566.61	N.A.	89.00
0-90	1649.93	N.A.	93.70
10-90	1596.23	N.A.	90.60
20-40	502.38	N.A.	28.50
20-50	778.90	N.A.	44.20
40-70	721.20	N.A.	41.00
60-80	333.26	N.A.	18.90
70-80	136.20	N.A.	7.70
80-90	83.32	N.A.	4.70
90-110	76.44	N.A.	4.30
90-120	92.81	N.A.	5.30
90-130	102.24	N.A.	5.80
90-150	109.67	N.A.	6.20
90-180	111.08	N.A.	6.30
110-180	34.64	N.A.	2.00
0-180	1761.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	53.70
10-20	153.12
20-30	229.60
30-40	272.78
40-50	276.51
50-60	247.62
60-70	197.06
70-80	136.20
80-90	83.32
90-100	48.94
100-110	27.50
110-120	16.37
120-130	9.42
130-140	4.95
140-150	2.49
150-160	1.13
160-170	0.26
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	87	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	40	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**

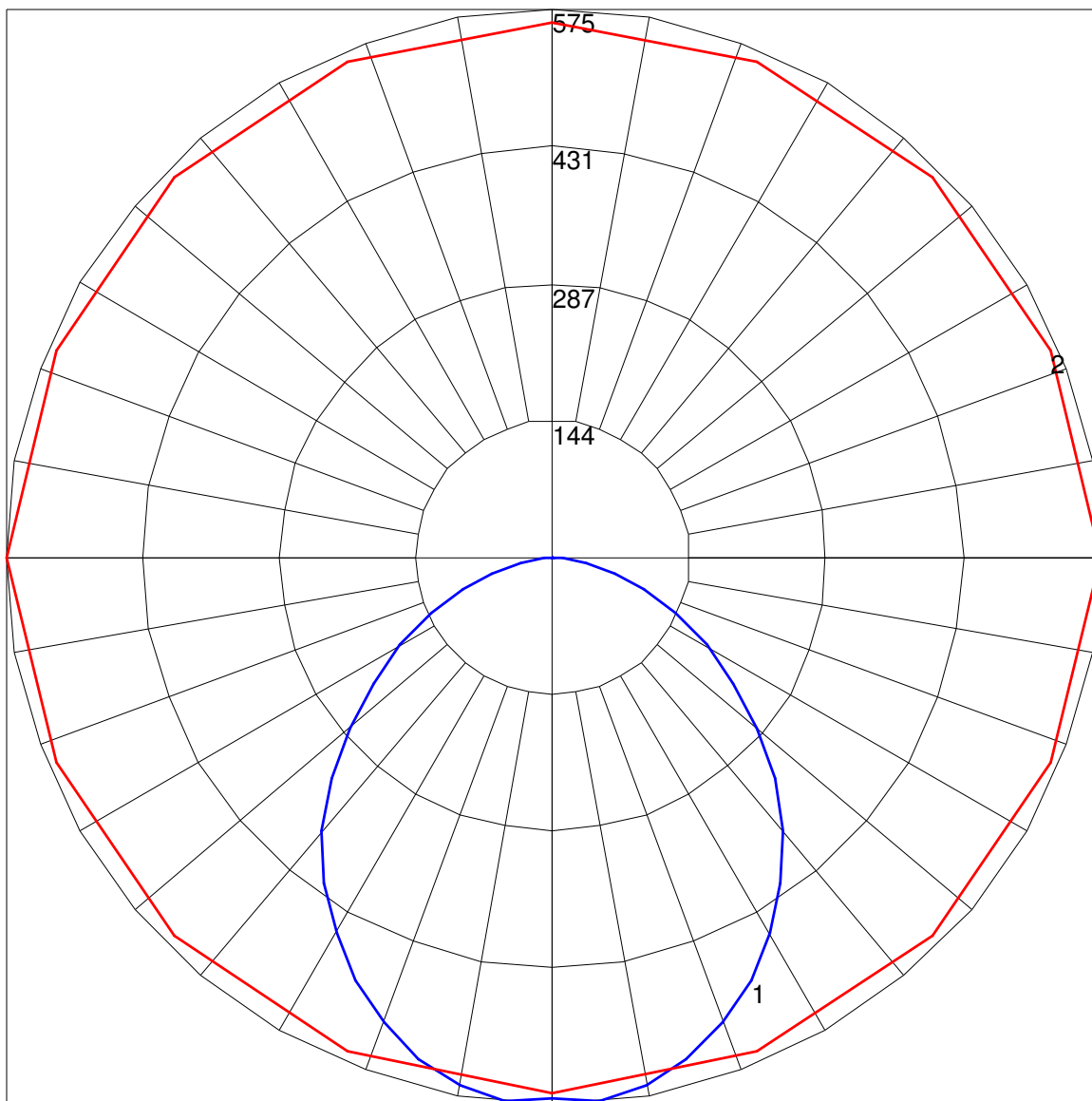
Reflectances

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	11.8	13.4	12.3	13.8	14.3	15.0	16.5	15.4	16.9	17.4
	3H	13.1	14.5	13.5	14.9	15.4	17.2	18.6	17.7	19.1	19.6
	4H	13.4	14.7	13.9	15.2	15.7	18.3	19.6	18.8	20.1	20.6
	6H	13.6	14.8	14.1	15.3	15.9	19.3	20.6	19.8	21.1	21.6
	8H	13.6	14.8	14.2	15.3	15.9	19.9	21.1	20.4	21.6	22.1
	12H	13.6	14.8	14.2	15.3	15.8	20.5	21.6	21.0	22.1	22.7
4H	2H	12.8	14.2	13.3	14.6	15.1	15.3	16.6	15.8	17.1	17.6
	3H	14.3	15.4	14.8	15.9	16.5	17.8	18.9	18.3	19.4	19.9
	4H	14.7	15.8	15.3	16.3	16.8	19.0	20.0	19.5	20.5	21.1
	6H	15.0	15.9	15.6	16.5	17.0	20.3	21.2	20.8	21.7	22.3
	8H	15.1	15.9	15.6	16.5	17.1	20.9	21.8	21.5	22.3	22.9
	12H	15.1	15.9	15.7	16.4	17.0	21.6	22.4	22.2	23.0	23.6
8H	4H	15.5	16.3	16.0	16.9	17.5	19.2	20.0	19.7	20.5	21.1
	6H	15.9	16.6	16.5	17.2	17.8	20.6	21.3	21.2	21.9	22.5
	8H	16.0	16.7	16.6	17.3	17.9	21.4	22.0	22.0	22.6	23.2
	12H	16.1	16.7	16.7	17.3	17.9	22.2	22.8	22.8	23.4	24.1
12H	4H	15.7	16.4	16.2	17.0	17.6	19.2	19.9	19.7	20.5	21.1
	6H	16.2	16.9	16.8	17.4	18.1	20.6	21.3	21.2	21.8	22.5
	8H	16.4	17.0	17.0	17.6	18.3	21.4	22.0	22.0	22.6	23.3

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 574.672 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.)