

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-4-L26-835-HIA-EM10W-DRV-UNV (EMER MODE)_.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] 08-30-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836

[LUMINAIRE] 4' LED SURFACE MOUNT LUMINAIRE

[LUMCAT] SLF-4-L26-835-HIA-EM10W-DRV-UNV (EMER MODE)

[MORE] WITH FROSTED ACRYLIC LENS

[LAMPCAT] HLM 80 CRI 3500K 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	1423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	10
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	2014	1667	1710
55	1705	1429	1517
65	1371	1207	1301
75	963	967	1095
85	294	778	958

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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	459.465	459.465	459.465	459.465	459.465
5	464.368	457.598	455.730	455.263	455.030
10	454.563	449.426	448.259	449.426	448.259
15	440.555	436.586	438.453	440.555	440.088
20	419.776	416.741	423.278	427.013	428.414
25	396.896	392.927	402.266	410.904	411.604
30	369.113	366.779	378.919	391.526	391.993
35	337.828	336.661	351.837	368.179	370.281
40	304.676	301.641	321.252	341.097	345.533
45	266.621	263.352	289.267	311.914	318.918
50	225.764	226.698	257.515	281.329	291.368
55	187.242	193.078	225.063	250.511	261.718
60	150.120	160.626	193.779	221.094	230.900
65	115.100	128.174	165.062	190.744	199.382
70	82.414	97.823	136.579	162.727	169.731
75	53.464	69.807	108.096	136.812	141.715
80	28.250	47.861	84.982	113.466	117.435
85	7.471	30.818	64.904	92.920	97.356
90	0.934	19.378	50.429	75.644	81.247
95	0.233	11.440	38.055	60.001	66.538
100	0.000	6.771	27.549	46.460	52.997
105	0.000	4.669	20.312	35.254	42.258
110	0.000	3.502	16.109	28.717	34.553
115	0.000	3.035	12.140	23.113	27.549
120	0.000	2.802	10.273	18.911	22.179
125	0.000	1.868	7.471	14.942	17.744
130	0.000	1.634	6.070	11.440	13.541
135	0.000	1.167	4.669	9.105	10.506
140	0.000	1.167	3.502	7.004	8.405
145	0.000	0.467	3.035	5.603	6.304
150	0.000	0.000	2.802	4.903	5.603
155	0.000	0.000	1.868	3.502	4.436
160	0.000	0.000	1.634	2.335	3.035
165	0.000	0.000	0.000	1.634	1.868
170	0.000	0.000	0.000	0.000	1.167
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SLF-4-L26-835-HIA-EM10W-DRV-UNV (EMER MODE)_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	167.13	N.A.	11.70
0-30	352.66	N.A.	24.80
0-40	573.08	N.A.	40.30
0-60	996.61	N.A.	70.00
0-80	1265.91	N.A.	89.00
0-90	1333.23	N.A.	93.70
10-90	1289.84	N.A.	90.60
20-40	405.95	N.A.	28.50
20-50	629.39	N.A.	44.20
40-70	582.77	N.A.	41.00
60-80	269.30	N.A.	18.90
70-80	110.06	N.A.	7.70
80-90	67.33	N.A.	4.70
90-110	61.77	N.A.	4.30
90-120	75.00	N.A.	5.30
90-130	82.61	N.A.	5.80
90-150	88.62	N.A.	6.20
90-180	89.76	N.A.	6.30
110-180	27.99	N.A.	2.00
0-180	1422.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	43.39
10-20	123.73
20-30	185.53
30-40	220.42
40-50	223.44
50-60	200.09
60-70	159.23
70-80	110.06
80-90	67.33
90-100	39.54
100-110	22.22
110-120	13.23
120-130	7.62
130-140	4.00
140-150	2.01
150-160	0.92
160-170	0.21
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

X=2H	Y=2H	11.0	12.6	11.5	13.0	13.5	14.2	15.7	14.6	16.1	16.6
	3H	12.3	13.7	12.7	14.1	14.6	16.4	17.8	16.9	18.3	18.8
	4H	12.6	13.9	13.1	14.4	14.9	17.5	18.8	18.0	19.3	19.8
	6H	12.8	14.0	13.3	14.5	15.1	18.5	19.8	19.0	20.3	20.8
	8H	12.8	14.0	13.4	14.5	15.1	19.1	20.3	19.6	20.8	21.3
	12H	12.8	14.0	13.4	14.5	15.0	19.7	20.8	20.2	21.3	21.9

UGR Viewed Endwise

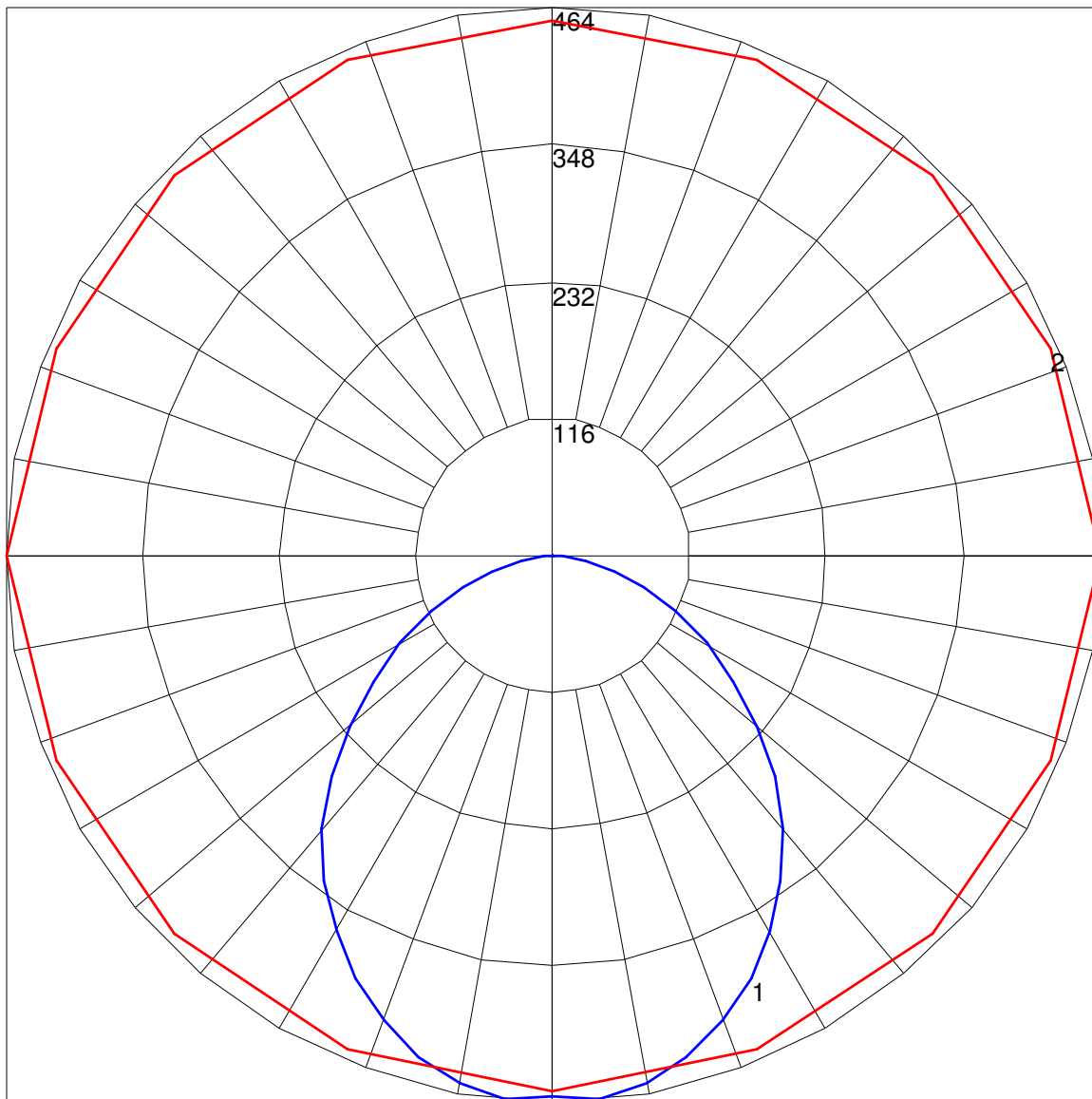
4H	2H	12.0	13.4	12.5	13.8	14.3	14.5	15.8	15.0	16.3	16.8
	3H	13.5	14.6	14.0	15.1	15.7	17.0	18.1	17.5	18.6	19.1
	4H	13.9	15.0	14.5	15.5	16.0	18.2	19.2	18.7	19.7	20.3
	6H	14.2	15.1	14.8	15.7	16.2	19.5	20.4	20.0	20.9	21.5
	8H	14.3	15.1	14.8	15.7	16.3	20.1	21.0	20.7	21.5	22.1
	12H	14.3	15.1	14.9	15.6	16.2	20.8	21.6	21.4	22.2	22.8

8H	4H	14.7	15.5	15.2	16.1	16.7	18.4	19.2	18.9	19.7	20.3
	6H	15.1	15.8	15.7	16.4	17.0	19.8	20.5	20.4	21.1	21.7
	8H	15.2	15.9	15.8	16.5	17.1	20.6	21.2	21.2	21.8	22.4
	12H	15.3	15.9	15.9	16.5	17.1	21.4	22.0	22.0	22.6	23.3

12H	4H	14.9	15.6	15.4	16.2	16.8	18.4	19.1	18.9	19.7	20.3
	6H	15.4	16.1	16.0	16.6	17.3	19.8	20.5	20.4	21.0	21.7
	8H	15.6	16.2	16.2	16.8	17.5	20.6	21.2	21.2	21.8	22.5

Maximum UGR = 23.3

POLAR GRAPH



Maximum Candela = 464.368 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.)