



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-835-HIA-(L20)-DIM-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
 [ISSUEDATE] 10-05-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2' DIRECT/INDIRECT STAIRWELL LIGHT
 [MORE] WHITE REFLECTOR w/FROSTED POLYCARBONATE LENS
 [LUMCAT] SLF-2-L26-835-HIA-(L20)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_SOURCETYPE]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	2096
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	15.8
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	4804	4343	4708
55	4010	3657	4216
65	3106	3011	3659
75	2209	2490	3115
85	941	2091	2748

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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	660.618	660.618	660.618	660.618	660.618
5	662.393	658.253	655.296	655.887	652.339
10	650.564	648.790	647.016	650.564	648.790
15	629.865	629.273	631.639	636.962	637.553
20	603.842	606.208	610.939	620.993	624.542
25	563.625	568.948	581.368	594.971	601.476
30	519.860	529.914	551.205	569.539	576.637
35	473.138	483.783	512.763	538.786	548.840
40	418.727	432.921	467.223	502.117	512.763
45	363.725	380.876	418.727	460.126	472.546
50	305.765	330.014	367.865	415.770	429.372
55	257.269	280.925	322.325	375.553	390.930
60	204.632	230.655	276.194	328.239	346.573
65	157.318	182.749	232.429	282.108	301.034
70	116.510	141.941	195.761	242.483	257.860
75	78.659	102.907	159.093	204.632	215.869
80	46.131	74.519	128.930	169.738	180.975
85	18.334	51.454	101.725	141.941	149.038
90	0.000	31.345	79.251	114.736	120.650
95	0.000	21.883	63.282	94.628	99.950
100	0.000	14.194	46.722	75.702	79.842
105	0.000	12.420	40.217	61.508	68.014
110	0.000	7.688	28.980	48.497	53.819
115	0.000	7.097	25.431	40.808	46.131
120	0.000	6.506	20.108	33.711	39.034
125	0.000	4.731	15.377	27.205	31.345
130	0.000	0.000	14.786	24.248	26.614
135	0.000	0.000	10.054	17.743	21.883
140	0.000	0.000	8.871	15.377	17.151
145	0.000	0.000	0.000	11.828	14.194
150	0.000	0.000	0.000	10.054	11.828
155	0.000	0.000	0.000	8.280	8.280
160	0.000	0.000	0.000	7.097	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	4.731	0.000
180	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	241.19	N.A.	11.50
0-30	509.74	N.A.	24.30
0-40	829.29	N.A.	39.60
0-60	1443.83	N.A.	68.90
0-80	1838.74	N.A.	87.70
0-90	1943.03	N.A.	92.70
10-90	1880.57	N.A.	89.70
20-40	588.11	N.A.	28.10
20-50	911.83	N.A.	43.50
40-70	845.57	N.A.	40.30
60-80	394.92	N.A.	18.80
70-80	163.89	N.A.	7.80
80-90	104.28	N.A.	5.00
90-110	101.61	N.A.	4.80
90-120	125.52	N.A.	6.00
90-130	140.04	N.A.	6.70
90-150	151.39	N.A.	7.20
90-180	153.01	N.A.	7.30
110-180	51.40	N.A.	2.50
0-180	2096.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.46
10-20	178.73
20-30	268.55
30-40	319.55
40-50	323.72
50-60	290.81
60-70	231.03
70-80	163.89
80-90	104.28
90-100	62.88
100-110	38.72
110-120	23.91
120-130	14.52
130-140	7.91
140-150	3.44
150-160	1.41
160-170	0.15
170-180	0.06

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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	14.3	15.8	14.8	16.3	16.8	17.5	19.0	18.0	19.5	20.0
	3H	15.5	16.9	16.0	17.4	17.9	19.7	21.1	20.2	21.6	22.1
	4H	15.9	17.2	16.4	17.7	18.2	20.8	22.1	21.3	22.6	23.1
	6H	16.1	17.3	16.7	17.8	18.4	21.8	23.0	22.3	23.5	24.1
	8H	16.2	17.3	16.7	17.9	18.4	22.3	23.5	22.8	24.0	24.5
	12H	16.2	17.3	16.7	17.8	18.4	22.8	23.9	23.4	24.4	25.0

UGR Viewed Endwise

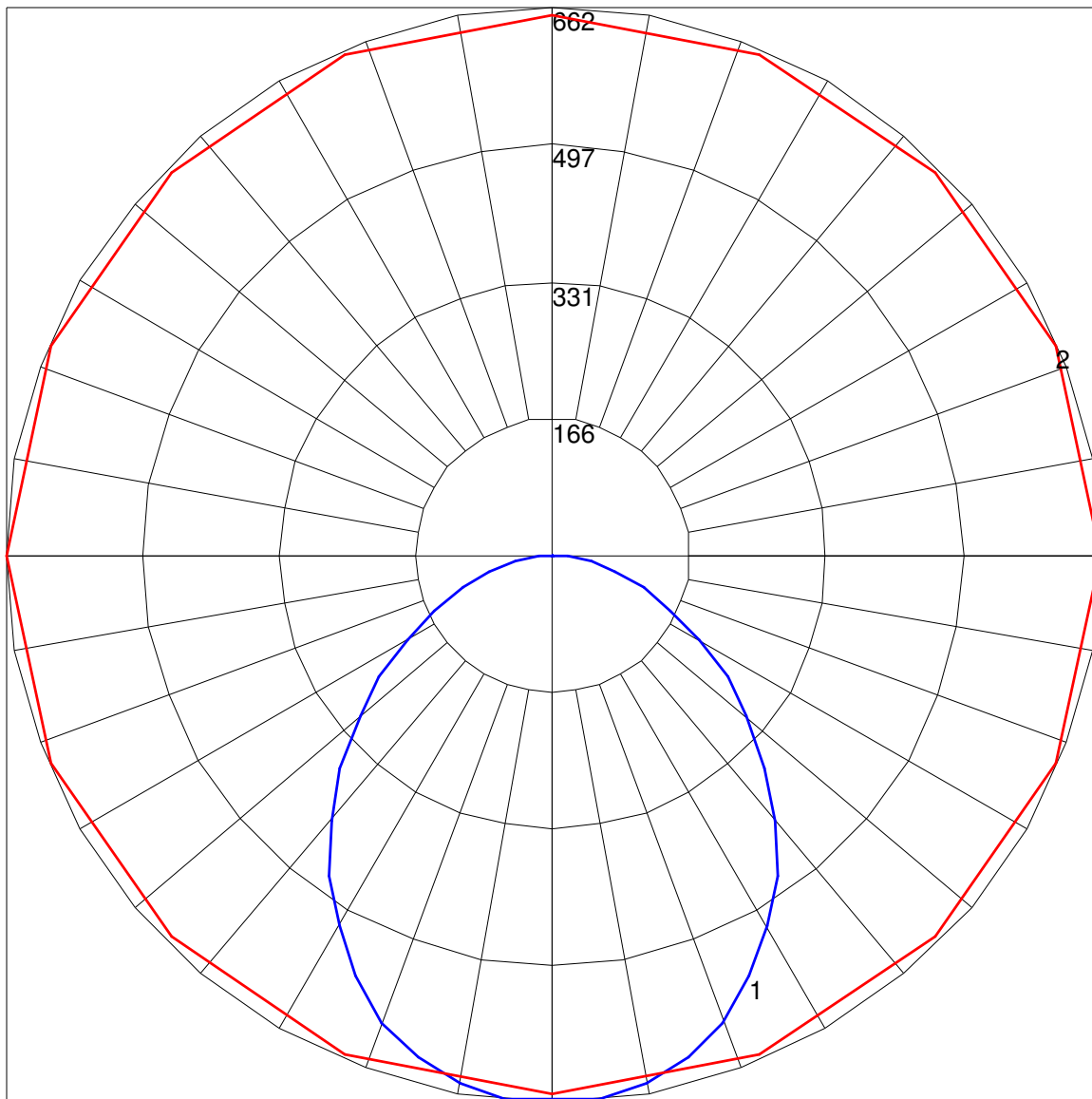
4H	2H	15.2	16.5	15.7	17.0	17.6	17.8	19.1	18.3	19.6	20.1
	3H	16.7	17.8	17.2	18.3	18.9	20.3	21.4	20.8	21.9	22.5
	4H	17.2	18.2	17.7	18.7	19.3	21.5	22.5	22.0	23.0	23.6
	6H	17.5	18.4	18.1	19.0	19.6	22.7	23.6	23.3	24.2	24.8
	8H	17.6	18.4	18.2	19.0	19.6	23.3	24.2	23.9	24.7	25.3
	12H	17.6	18.4	18.2	19.0	19.6	24.0	24.7	24.5	25.3	25.9

8H	4H	17.9	18.8	18.5	19.3	19.9	21.6	22.5	22.2	23.0	23.7
	6H	18.4	19.1	19.0	19.7	20.4	23.0	23.7	23.6	24.3	25.0
	8H	18.6	19.2	19.2	19.9	20.5	23.8	24.4	24.4	25.0	25.7
	12H	18.7	19.3	19.3	19.9	20.6	24.6	25.2	25.2	25.8	26.5

12H	4H	18.1	18.9	18.7	19.5	20.1	21.6	22.4	22.2	23.0	23.6
	6H	18.8	19.4	19.4	20.0	20.7	23.1	23.7	23.7	24.3	25.0
	8H	19.0	19.6	19.6	20.2	20.9	23.8	24.4	24.4	25.0	25.7

Maximum UGR = 26.5

POLAR GRAPH



Maximum Candela = 662.393 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.)