



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] 12-02-2020
 [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	2041
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	16.1
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	4678	4229	4584
55	3905	3561	4105
65	3024	2932	3563
75	2151	2425	3033
85	917	2036	2676

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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	643.284	643.284	643.284	643.284	643.284
5	645.011	640.980	638.100	638.676	635.221
10	633.493	631.765	630.038	633.493	631.765
15	613.337	612.761	615.064	620.247	620.823
20	587.997	590.300	594.908	604.698	608.153
25	548.835	554.019	566.113	579.358	585.693
30	506.219	516.009	536.741	554.594	561.505
35	460.722	471.089	499.308	524.648	534.438
40	407.739	421.561	454.963	488.942	499.308
45	354.180	370.881	407.739	448.052	460.146
50	297.742	321.354	358.212	404.860	418.105
55	250.518	273.554	313.867	365.698	380.672
60	199.262	224.602	268.947	319.626	337.479
65	153.190	177.954	226.330	274.706	293.135
70	113.453	138.217	190.624	236.120	251.094
75	76.595	100.207	154.918	199.262	210.205
80	44.920	72.564	125.547	165.284	176.226
85	17.853	50.104	99.055	138.217	145.128
90	0.000	30.523	77.171	111.725	117.484
95	0.000	21.308	61.622	92.144	97.328
100	0.000	13.822	45.496	73.716	77.747
105	0.000	12.094	39.161	59.894	66.229
110	0.000	7.487	28.219	47.224	52.407
115	0.000	6.911	24.764	39.737	44.920
120	0.000	6.335	19.581	32.826	38.010
125	0.000	4.607	14.973	26.492	30.523
130	0.000	0.000	14.398	23.612	25.916
135	0.000	0.000	9.790	17.277	21.308
140	0.000	0.000	8.639	14.973	16.701
145	0.000	0.000	0.000	11.518	13.822
150	0.000	0.000	0.000	9.790	11.518
155	0.000	0.000	0.000	8.063	8.063
160	0.000	0.000	0.000	6.911	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	4.607	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	234.86	N.A.	11.50
0-30	496.36	N.A.	24.30
0-40	807.53	N.A.	39.60
0-60	1405.94	N.A.	68.90
0-80	1790.5	N.A.	87.70
0-90	1892.04	N.A.	92.70
10-90	1831.22	N.A.	89.70
20-40	572.68	N.A.	28.10
20-50	887.90	N.A.	43.50
40-70	823.38	N.A.	40.30
60-80	384.55	N.A.	18.80
70-80	159.58	N.A.	7.80
80-90	101.54	N.A.	5.00
90-110	98.94	N.A.	4.80
90-120	122.22	N.A.	6.00
90-130	136.36	N.A.	6.70
90-150	147.42	N.A.	7.20
90-180	148.99	N.A.	7.30
110-180	50.05	N.A.	2.50
0-180	2041.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	60.82
10-20	174.04
20-30	261.51
30-40	311.17
40-50	315.23
50-60	283.18
60-70	224.97
70-80	159.58
80-90	101.54
90-100	61.23
100-110	37.71
110-120	23.28
120-130	14.14
130-140	7.71
140-150	3.35
150-160	1.37
160-170	0.14
170-180	0.05

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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	14.2	15.7	14.7	16.2	16.7	17.4	18.9	17.9	19.4	19.9
	3H	15.4	16.8	15.9	17.3	17.8	19.6	21.0	20.1	21.5	22.0
	4H	15.8	17.1	16.3	17.6	18.1	20.7	22.0	21.2	22.5	23.0
	6H	16.0	17.2	16.6	17.7	18.3	21.7	22.9	22.2	23.4	24.0
	8H	16.1	17.2	16.6	17.8	18.3	22.2	23.4	22.7	23.9	24.4
	12H	16.1	17.2	16.6	17.7	18.3	22.7	23.8	23.3	24.3	24.9

UGR Viewed Endwise

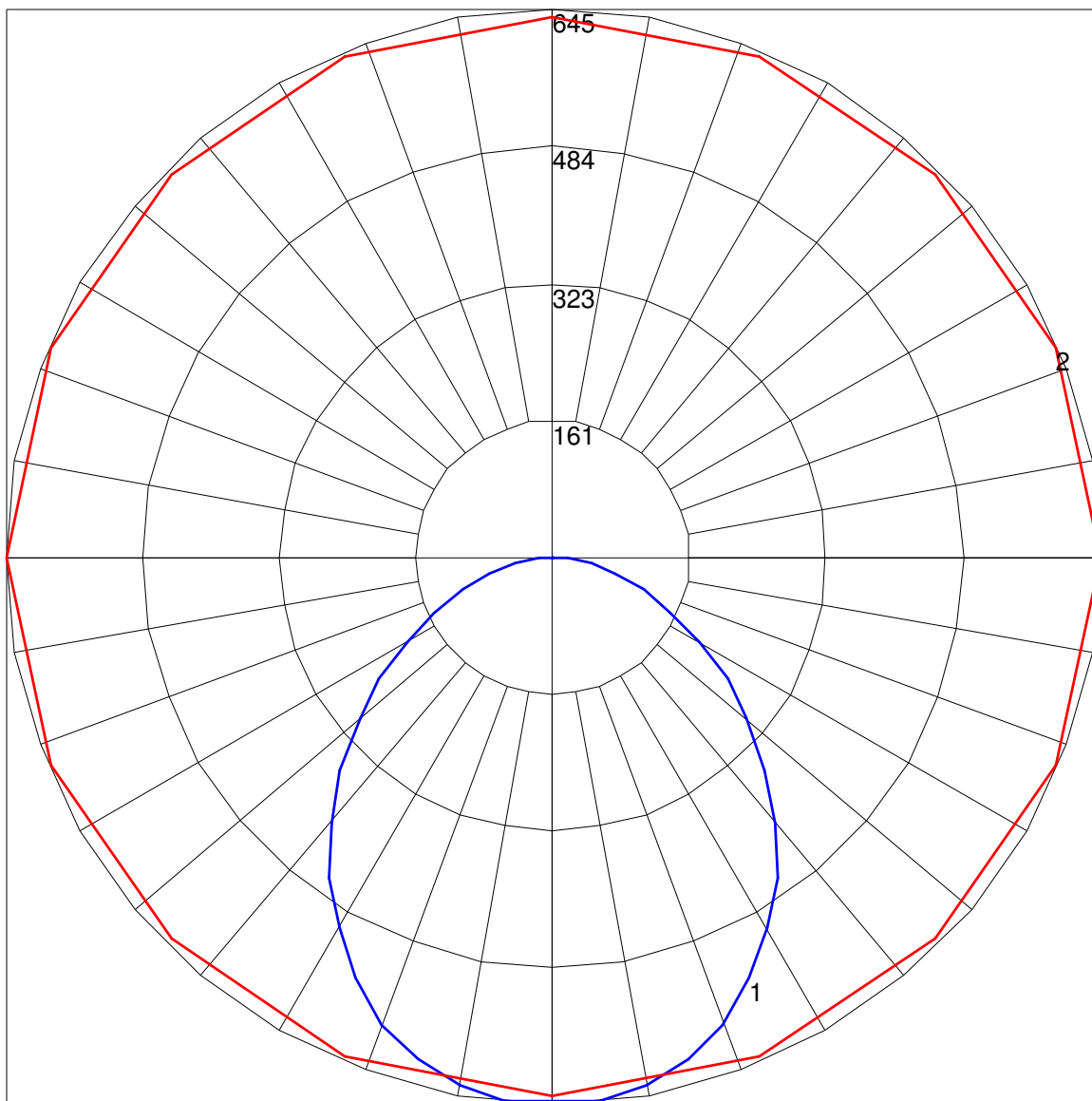
4H	2H	15.1	16.4	15.6	16.9	17.5	17.7	19.0	18.2	19.5	20.0
	3H	16.6	17.7	17.1	18.2	18.8	20.2	21.3	20.7	21.8	22.4
	4H	17.1	18.1	17.6	18.6	19.2	21.4	22.4	21.9	22.9	23.5
	6H	17.4	18.3	18.0	18.9	19.5	22.6	23.5	23.2	24.1	24.7
	8H	17.5	18.3	18.1	18.9	19.5	23.2	24.1	23.8	24.6	25.2
	12H	17.5	18.3	18.1	18.9	19.5	23.9	24.6	24.4	25.2	25.8

8H	4H	17.8	18.7	18.4	19.2	19.8	21.5	22.4	22.1	22.9	23.6
	6H	18.3	19.0	18.9	19.6	20.3	22.9	23.6	23.5	24.2	24.9
	8H	18.5	19.1	19.1	19.8	20.4	23.7	24.3	24.3	24.9	25.6
	12H	18.6	19.2	19.2	19.8	20.5	24.5	25.1	25.1	25.7	26.4

12H	4H	18.0	18.8	18.6	19.4	20.0	21.5	22.3	22.1	22.9	23.5
	6H	18.7	19.3	19.3	19.9	20.6	23.0	23.6	23.6	24.2	24.9
	8H	18.9	19.5	19.5	20.1	20.8	23.7	24.3	24.3	24.9	25.6

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 645.011 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.)