



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-835-HIA-(L35)-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] 11-17-2022
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2' LED DIRECT/INDIRECT STAIRWELL LIGHT
 [MORE] WITH FROSTED POLYCARBONATE LENS
 [LUMCAT] SLF-2-L45-835-HIA-(L35)-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	3390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	24.1
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	7770	7023	7614
55	6486	5914	6818
65	5023	4870	5918
75	3573	4027	5038
85	1523	3382	4445

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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	1068.462	1068.462	1068.462	1068.462	1068.462
5	1071.332	1064.636	1059.853	1060.810	1055.070
10	1052.201	1049.331	1046.462	1052.201	1049.331
15	1018.722	1017.765	1021.591	1030.200	1031.157
20	976.634	980.460	988.112	1004.373	1010.113
25	911.589	920.197	940.285	962.285	972.807
30	840.804	857.065	891.501	921.154	932.633
35	765.237	782.455	829.326	871.414	887.675
40	677.235	700.192	755.671	812.108	829.326
45	588.276	616.016	677.235	744.193	764.280
50	494.534	533.753	594.972	672.452	694.453
55	416.098	454.359	521.318	607.407	632.277
60	330.965	373.053	446.707	530.883	560.536
65	254.441	295.573	375.923	456.273	486.882
70	188.440	229.571	316.617	392.184	417.054
75	127.221	166.439	257.311	330.965	349.139
80	74.611	120.525	208.527	274.529	292.703
85	29.653	83.220	164.526	229.571	241.050
90	0.000	50.697	128.177	185.570	195.135
95	0.000	35.392	102.350	153.047	161.656
100	0.000	22.957	75.567	122.438	129.134
105	0.000	20.087	65.045	99.481	110.003
110	0.000	12.435	46.871	78.437	87.046
115	0.000	11.479	41.131	66.002	74.611
120	0.000	10.522	32.523	54.523	63.132
125	0.000	7.652	24.870	44.001	50.697
130	0.000	0.000	23.914	39.218	43.045
135	0.000	0.000	16.261	28.696	35.392
140	0.000	0.000	14.348	24.870	27.740
145	0.000	0.000	0.000	19.131	22.957
150	0.000	0.000	0.000	16.261	19.131
155	0.000	0.000	0.000	13.392	13.392
160	0.000	0.000	0.000	11.479	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	7.652	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	390.09	N.A.	11.50
0-30	824.44	N.A.	24.30
0-40	1341.27	N.A.	39.60
0-60	2335.2	N.A.	68.90
0-80	2973.92	N.A.	87.70
0-90	3142.59	N.A.	92.70
10-90	3041.57	N.A.	89.70
20-40	951.19	N.A.	28.10
20-50	1474.76	N.A.	43.50
40-70	1367.59	N.A.	40.30
60-80	638.72	N.A.	18.80
70-80	265.06	N.A.	7.80
80-90	168.66	N.A.	5.00
90-110	164.34	N.A.	4.80
90-120	203.00	N.A.	6.00
90-130	226.49	N.A.	6.70
90-150	244.86	N.A.	7.20
90-180	247.47	N.A.	7.30
110-180	83.13	N.A.	2.50
0-180	3390.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	101.02
10-20	289.07
20-30	434.35
30-40	516.84
40-50	523.58
50-60	470.35
60-70	373.66
70-80	265.06
80-90	168.66
90-100	101.70
100-110	62.63
110-120	38.67
120-130	23.49
130-140	12.80
140-150	5.57
150-160	2.28
160-170	0.24
170-180	0.09

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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	15.9	17.4	16.4	17.9	18.4	19.1	20.6	19.6	21.1	21.6
	3H	17.1	18.5	17.6	19.0	19.5	21.3	22.7	21.8	23.2	23.7
	4H	17.5	18.8	18.0	19.3	19.8	22.4	23.7	22.9	24.2	24.7
	6H	17.7	18.9	18.3	19.4	20.0	23.4	24.6	23.9	25.1	25.7
	8H	17.8	18.9	18.3	19.5	20.0	23.9	25.1	24.4	25.6	26.1
	12H	17.8	18.9	18.3	19.4	20.0	24.4	25.5	25.0	26.0	26.6

UGR Viewed Endwise

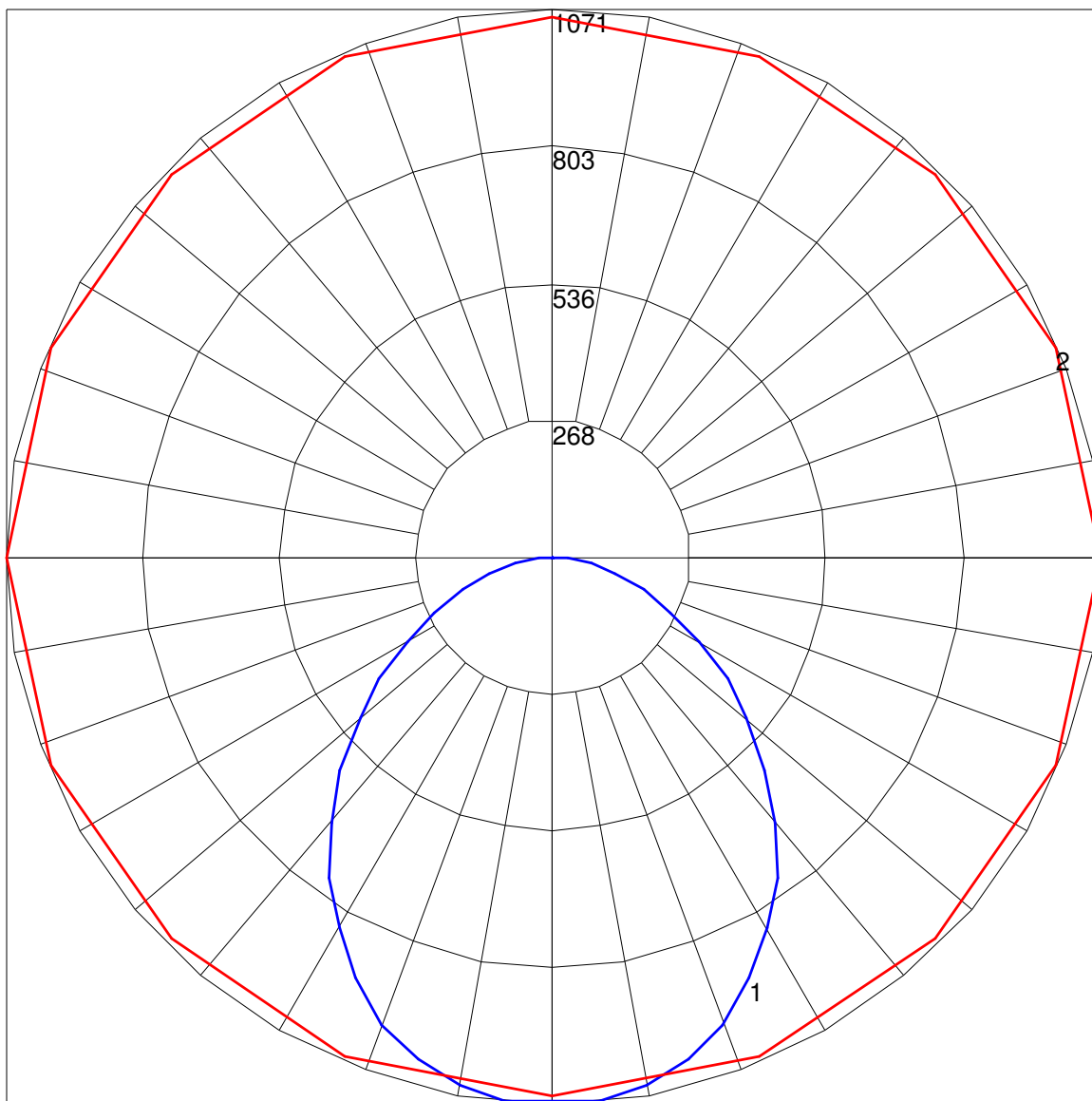
4H	2H	16.8	18.1	17.3	18.6	19.2	19.4	20.7	19.9	21.2	21.7
	3H	18.3	19.4	18.8	19.9	20.5	21.9	23.0	22.4	23.5	24.1
	4H	18.8	19.8	19.3	20.3	20.9	23.1	24.1	23.6	24.6	25.2
	6H	19.1	20.0	19.7	20.6	21.2	24.3	25.2	24.9	25.8	26.4
	8H	19.2	20.0	19.8	20.6	21.2	24.9	25.8	25.5	26.3	26.9
	12H	19.2	20.0	19.8	20.6	21.2	25.6	26.3	26.1	26.9	27.5

8H	4H	19.5	20.4	20.1	20.9	21.5	23.2	24.1	23.8	24.6	25.3
	6H	20.0	20.7	20.6	21.3	22.0	24.6	25.3	25.2	25.9	26.6
	8H	20.2	20.8	20.8	21.5	22.1	25.4	26.0	26.0	26.6	27.3
	12H	20.3	20.9	20.9	21.5	22.2	26.2	26.8	26.8	27.4	28.1

12H	4H	19.7	20.5	20.3	21.1	21.7	23.2	24.0	23.8	24.6	25.2
	6H	20.4	21.0	21.0	21.6	22.3	24.7	25.3	25.3	25.9	26.6
	8H	20.6	21.2	21.2	21.8	22.5	25.4	26.0	26.0	26.6	27.3

Maximum UGR = 28.1

POLAR GRAPH



Maximum Candela = 1071.332 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.)