



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-840-HIA-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] 03-20-2020
 [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-L26-840-HIA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K 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	2863
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	135
Total Luminaire Watts	21.25
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	6562	5932	6430
55	5477	4995	5758
65	4243	4113	4998
75	3018	3401	4255
85	1286	2856	3754

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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	902.362	902.362	902.362	902.362	902.362
5	904.786	899.131	895.091	895.899	891.052
10	888.629	886.205	883.782	888.629	886.205
15	860.354	859.546	862.778	870.048	870.856
20	824.809	828.040	834.503	848.236	853.083
25	769.876	777.146	794.111	812.691	821.578
30	710.095	723.828	752.911	777.954	787.648
35	646.275	660.817	700.401	735.946	749.679
40	571.954	591.342	638.197	685.860	700.401
45	496.824	520.252	571.954	628.503	645.468
50	417.655	450.777	502.479	567.914	586.495
55	351.412	383.726	440.275	512.981	533.985
60	279.514	315.059	377.263	448.354	473.397
65	214.887	249.624	317.483	385.342	411.193
70	159.145	193.883	267.396	331.216	352.220
75	107.443	140.565	217.310	279.514	294.863
80	63.012	101.788	176.110	231.851	247.200
85	25.043	70.282	138.949	193.883	203.577
90	0.000	42.816	108.251	156.722	164.800
95	0.000	29.890	86.439	129.255	136.526
100	0.000	19.388	63.820	103.404	109.059
105	0.000	16.965	54.933	84.016	92.902
110	0.000	10.502	39.584	66.243	73.514
115	0.000	9.694	34.737	55.741	63.012
120	0.000	8.886	27.467	46.047	53.318
125	0.000	6.463	21.004	37.161	42.816
130	0.000	0.000	20.196	33.122	36.353
135	0.000	0.000	13.733	24.235	29.890
140	0.000	0.000	12.118	21.004	23.427
145	0.000	0.000	0.000	16.157	19.388
150	0.000	0.000	0.000	13.733	16.157
155	0.000	0.000	0.000	11.310	11.310
160	0.000	0.000	0.000	9.694	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	6.463	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	329.44	N.A.	11.50
0-30	696.27	N.A.	24.30
0-40	1132.76	N.A.	39.60
0-60	1972.18	N.A.	68.90
0-80	2511.61	N.A.	87.70
0-90	2654.05	N.A.	92.70
10-90	2568.73	N.A.	89.70
20-40	803.32	N.A.	28.10
20-50	1245.5	N.A.	43.50
40-70	1154.99	N.A.	40.30
60-80	539.43	N.A.	18.80
70-80	223.86	N.A.	7.80
80-90	142.44	N.A.	5.00
90-110	138.79	N.A.	4.80
90-120	171.45	N.A.	6.00
90-130	191.28	N.A.	6.70
90-150	206.79	N.A.	7.20
90-180	209.00	N.A.	7.30
110-180	70.21	N.A.	2.50
0-180	2863.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.31
10-20	244.13
20-30	366.83
30-40	436.49
40-50	442.18
50-60	397.23
60-70	315.57
70-80	223.86
80-90	142.44
90-100	85.89
100-110	52.89
110-120	32.66
120-130	19.84
130-140	10.81
140-150	4.70
150-160	1.93
160-170	0.20
170-180	0.08

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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

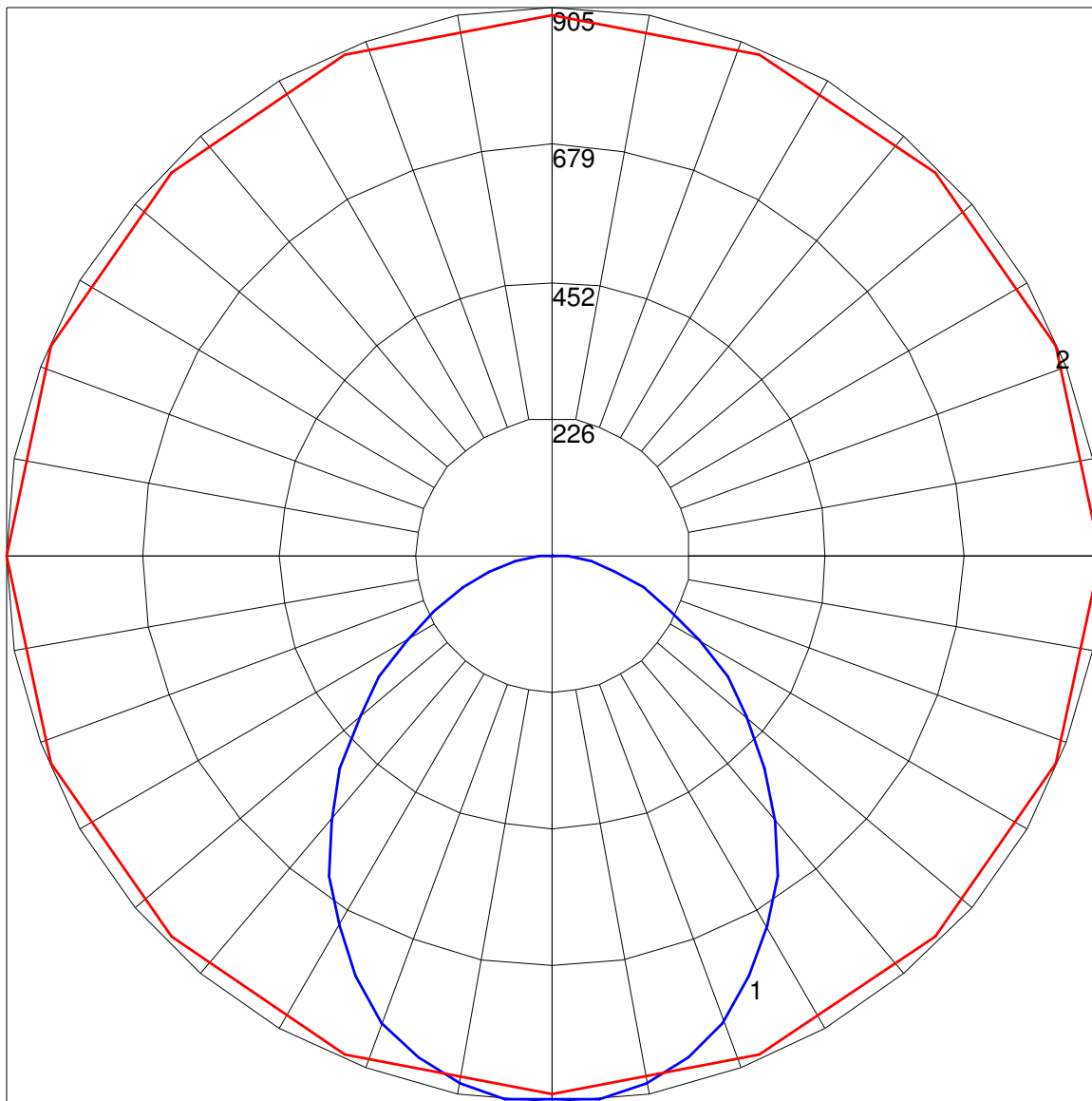
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	15.4	16.9	15.9	17.4	17.9	18.6	20.1	19.1	20.6	21.1
	3H	16.6	18.0	17.1	18.5	19.0	20.8	22.2	21.3	22.7	23.2
	4H	17.0	18.3	17.5	18.8	19.3	21.9	23.2	22.4	23.7	24.2
	6H	17.2	18.4	17.8	18.9	19.5	22.9	24.1	23.4	24.6	25.2
	8H	17.3	18.4	17.8	19.0	19.5	23.4	24.6	23.9	25.1	25.6
	12H	17.3	18.4	17.8	18.9	19.5	23.9	25.0	24.5	25.5	26.1
4H	2H	16.3	17.6	16.8	18.1	18.7	18.9	20.2	19.4	20.7	21.2
	3H	17.8	18.9	18.3	19.4	20.0	21.4	22.5	21.9	23.0	23.6
	4H	18.3	19.3	18.8	19.8	20.4	22.6	23.6	23.1	24.1	24.7
	6H	18.6	19.5	19.2	20.1	20.7	23.8	24.7	24.4	25.3	25.9
	8H	18.7	19.5	19.3	20.1	20.7	24.4	25.3	25.0	25.8	26.4
	12H	18.7	19.5	19.3	20.1	20.7	25.1	25.8	25.6	26.4	27.0
8H	4H	19.0	19.9	19.6	20.4	21.0	22.7	23.6	23.3	24.1	24.8
	6H	19.5	20.2	20.1	20.8	21.5	24.1	24.8	24.7	25.4	26.1
	8H	19.7	20.3	20.3	21.0	21.6	24.9	25.5	25.5	26.1	26.8
	12H	19.8	20.4	20.4	21.0	21.7	25.7	26.3	26.3	26.9	27.6
12H	4H	19.2	20.0	19.8	20.6	21.2	22.7	23.5	23.3	24.1	24.7
	6H	19.9	20.5	20.5	21.1	21.8	24.2	24.8	24.8	25.4	26.1
	8H	20.1	20.7	20.7	21.3	22.0	24.9	25.5	25.5	26.1	26.8

Maximum UGR = 27.6

POLAR GRAPH



Maximum Candela = 904.786 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.)