



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
 [ISSUE DATE] 05-NOV-2019
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2' LED DIRECT/INDIRECT STAIRWELL LIGHT
 [MORE] WHITE REFLECTOR w/FROSTED POLYCARBONATE LENS
 [LUMCAT] SLF-2-L26-840-HIA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCE TYPE] 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	2713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	20.5
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	6218	5621	6093
55	5190	4733	5457
65	4020	3897	4737
75	2860	3223	4032
85	1218	2706	3558

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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	855.085	855.085	855.085	855.085	855.085
5	857.382	852.023	848.195	848.961	844.368
10	842.071	839.775	837.478	842.071	839.775
15	815.278	814.512	817.575	824.464	825.230
20	781.595	784.657	790.781	803.795	808.388
25	729.540	736.429	752.505	770.112	778.533
30	672.891	685.905	713.464	737.195	746.381
35	612.415	626.195	663.705	697.388	710.402
40	541.988	560.360	604.760	649.926	663.705
45	470.794	492.994	541.988	595.574	611.650
50	395.773	427.160	476.153	538.160	555.767
55	333.001	363.622	417.208	486.105	506.008
60	264.870	298.552	357.497	424.863	448.594
65	203.628	236.545	300.849	365.153	389.649
70	150.807	183.725	253.387	313.863	333.766
75	101.814	133.200	205.925	264.870	279.415
80	59.710	96.455	166.883	219.704	234.249
85	23.731	66.600	131.669	183.725	192.911
90	0.000	40.573	102.580	148.511	156.166
95	0.000	28.324	81.911	122.483	129.373
100	0.000	18.372	60.476	97.986	103.345
105	0.000	16.076	52.055	79.614	88.035
110	0.000	9.952	37.510	62.773	69.662
115	0.000	9.186	32.917	52.821	59.710
120	0.000	8.421	26.028	43.635	50.524
125	0.000	6.124	19.903	35.214	40.573
130	0.000	0.000	19.138	31.386	34.448
135	0.000	0.000	13.014	22.966	28.324
140	0.000	0.000	11.483	19.903	22.200
145	0.000	0.000	0.000	15.310	18.372
150	0.000	0.000	0.000	13.014	15.310
155	0.000	0.000	0.000	10.717	10.717
160	0.000	0.000	0.000	9.186	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	6.124	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	312.18	N.A.	11.50
0-30	659.79	N.A.	24.30
0-40	1073.41	N.A.	39.60
0-60	1868.85	N.A.	68.90
0-80	2380.02	N.A.	87.70
0-90	2515.00	N.A.	92.70
10-90	2434.15	N.A.	89.70
20-40	761.23	N.A.	28.10
20-50	1180.24	N.A.	43.50
40-70	1094.48	N.A.	40.30
60-80	511.17	N.A.	18.80
70-80	212.13	N.A.	7.80
80-90	134.98	N.A.	5.00
90-110	131.52	N.A.	4.80
90-120	162.46	N.A.	6.00
90-130	181.26	N.A.	6.70
90-150	195.96	N.A.	7.20
90-180	198.05	N.A.	7.30
110-180	66.53	N.A.	2.50
0-180	2713.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	80.84
10-20	231.34
20-30	347.61
30-40	413.62
40-50	419.02
50-60	376.42
60-70	299.04
70-80	212.13
80-90	134.98
90-100	81.39
100-110	50.12
110-120	30.95
120-130	18.80
130-140	10.24
140-150	4.46
150-160	1.82
160-170	0.19
170-180	0.07

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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

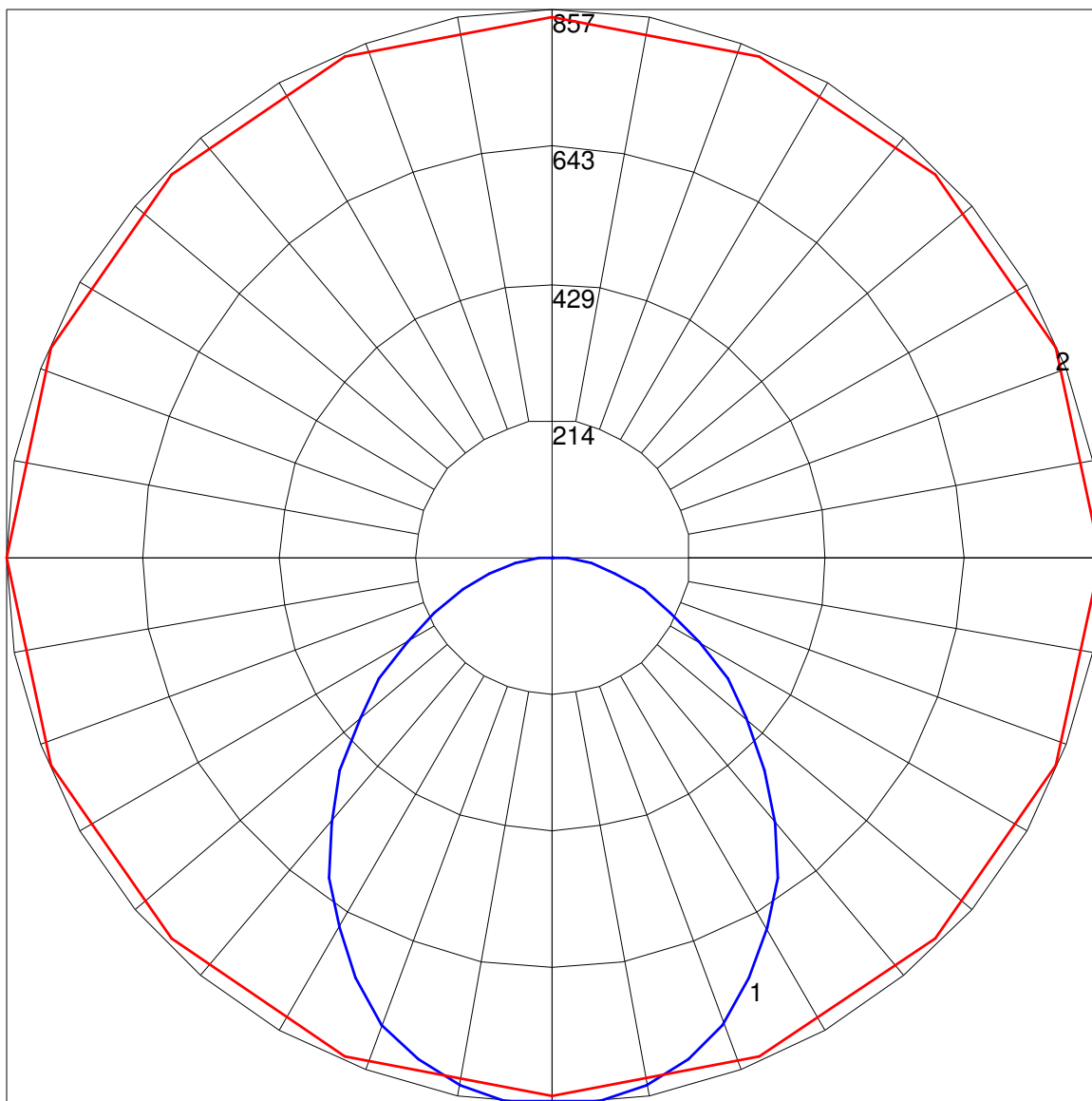
Reflectances

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	16.0	17.5	16.5	18.0	18.5	18.4	19.9	18.9	20.4	20.9
	3H	17.4	18.8	17.9	19.3	19.8	20.6	22.0	21.1	22.5	23.0
	4H	17.9	19.2	18.4	19.7	20.2	21.7	23.0	22.2	23.5	24.0
	6H	18.2	19.4	18.8	19.9	20.5	22.7	23.9	23.2	24.4	25.0
	8H	18.3	19.5	18.8	20.0	20.6	23.2	24.4	23.7	24.9	25.4
	12H	18.4	19.5	18.9	20.0	20.6	23.7	24.8	24.3	25.3	25.9
4H	2H	16.7	18.0	17.2	18.5	19.1	18.7	20.0	19.2	20.5	21.0
	3H	18.4	19.5	18.9	20.0	20.6	21.2	22.3	21.7	22.8	23.4
	4H	19.0	20.0	19.5	20.5	21.1	22.4	23.4	22.9	23.9	24.5
	6H	19.4	20.3	20.0	20.9	21.5	23.6	24.5	24.2	25.1	25.7
	8H	19.6	20.4	20.1	21.0	21.6	24.2	25.1	24.8	25.6	26.2
	12H	19.6	20.4	20.2	21.0	21.6	24.9	25.6	25.4	26.2	26.8
8H	4H	19.5	20.3	20.1	20.9	21.5	22.5	23.4	23.1	23.9	24.6
	6H	20.1	20.8	20.7	21.4	22.1	23.9	24.6	24.5	25.2	25.9
	8H	20.4	21.0	21.0	21.6	22.2	24.7	25.3	25.3	25.9	26.6
	12H	20.5	21.1	21.1	21.7	22.4	25.5	26.1	26.1	26.7	27.4
12H	4H	19.6	20.4	20.2	21.0	21.6	22.5	23.3	23.1	23.9	24.5
	6H	20.3	21.0	21.0	21.6	22.3	24.0	24.6	24.6	25.2	25.9
	8H	20.6	21.2	21.2	21.8	22.5	24.7	25.3	25.3	25.9	26.6

Maximum UGR = 27.4

POLAR GRAPH



Maximum Candela = 857.382 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.)