



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L26-830-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] 06-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-L26-830-HIA-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3000K 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	2752
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
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	6307	5702	6181
55	5265	4801	5535
65	4078	3953	4805
75	2901	3269	4090
85	1236	2745	3609

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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	867.377	867.377	867.377	867.377	867.377
5	869.707	864.271	860.388	861.165	856.506
10	854.176	851.847	849.517	854.176	851.847
15	826.998	826.221	829.327	836.316	837.093
20	792.831	795.937	802.149	815.350	820.009
25	740.027	747.016	763.323	781.183	789.725
30	682.564	695.765	723.720	747.792	757.111
35	621.219	635.196	673.246	707.413	720.614
40	549.779	568.415	613.454	659.269	673.246
45	477.562	500.081	549.779	604.135	620.442
50	401.463	433.300	482.998	545.896	563.756
55	337.788	368.849	423.205	493.093	513.282
60	268.677	302.844	362.637	430.971	455.043
65	206.555	239.946	305.174	370.402	395.251
70	152.975	186.366	257.029	318.375	338.564
75	103.278	135.115	208.885	268.677	283.431
80	60.569	97.842	169.282	222.862	237.616
85	24.072	67.558	133.562	186.366	195.684
90	0.000	41.156	104.054	150.646	158.411
95	0.000	28.731	83.088	124.244	131.233
100	0.000	18.637	61.345	99.395	104.831
105	0.000	16.307	52.804	80.758	89.300
110	0.000	10.095	38.050	63.675	70.664
115	0.000	9.318	33.391	53.580	60.569
120	0.000	8.542	26.402	44.262	51.251
125	0.000	6.212	20.190	35.720	41.156
130	0.000	0.000	19.413	31.837	34.944
135	0.000	0.000	13.201	23.296	28.731
140	0.000	0.000	11.648	20.190	22.519
145	0.000	0.000	0.000	15.530	18.637
150	0.000	0.000	0.000	13.201	15.530
155	0.000	0.000	0.000	10.871	10.871
160	0.000	0.000	0.000	9.318	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	6.212	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	316.67	N.A.	11.50
0-30	669.28	N.A.	24.30
0-40	1088.84	N.A.	39.60
0-60	1895.71	N.A.	68.90
0-80	2414.23	N.A.	87.70
0-90	2551.15	N.A.	92.70
10-90	2469.14	N.A.	89.70
20-40	772.17	N.A.	28.10
20-50	1197.21	N.A.	43.50
40-70	1110.21	N.A.	40.30
60-80	518.52	N.A.	18.80
70-80	215.18	N.A.	7.80
80-90	136.92	N.A.	5.00
90-110	133.41	N.A.	4.80
90-120	164.80	N.A.	6.00
90-130	183.87	N.A.	6.70
90-150	198.78	N.A.	7.20
90-180	200.89	N.A.	7.30
110-180	67.49	N.A.	2.50
0-180	2752.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.01
10-20	234.67
20-30	352.60
30-40	419.57
40-50	425.04
50-60	381.83
60-70	303.34
70-80	215.18
80-90	136.92
90-100	82.56
100-110	50.84
110-120	31.39
120-130	19.07
130-140	10.39
140-150	4.52
150-160	1.85
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

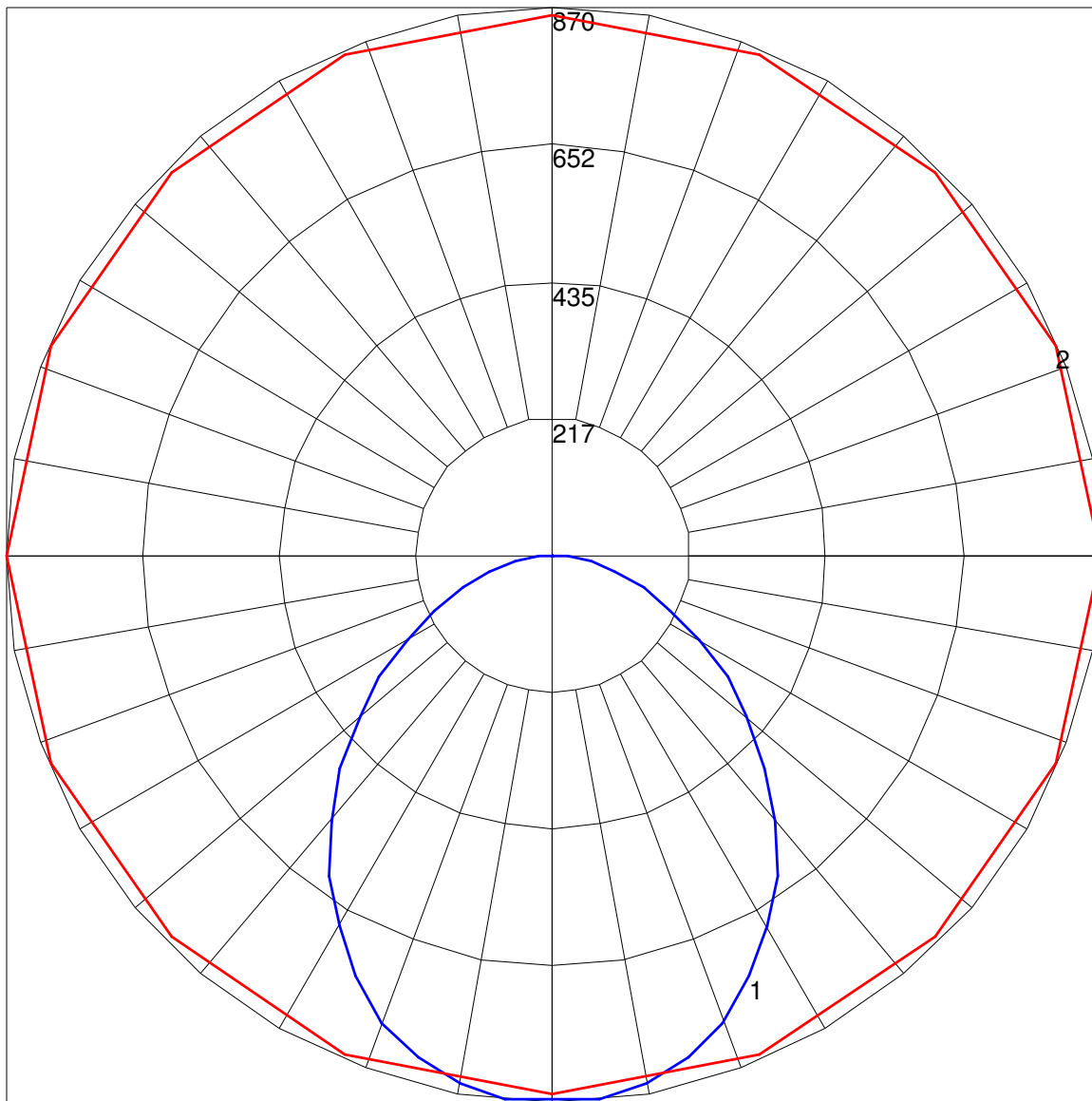
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UGR TABLE - CORRECTED

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 = 869.707 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.)