



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SLF-2-L45-830-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-L45-830-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	4587
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	34.35
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	10513	9503	10302
55	8776	8002	9226
65	6797	6589	8008
75	4835	5449	6817
85	2060	4576	6015

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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	1445.733	1445.733	1445.733	1445.733	1445.733
5	1449.616	1440.556	1434.084	1435.379	1427.613
10	1423.730	1419.847	1415.964	1423.730	1419.847
15	1378.429	1377.135	1382.312	1393.961	1395.255
20	1321.480	1326.657	1337.012	1359.015	1366.781
25	1233.468	1245.117	1272.297	1302.066	1316.303
30	1137.690	1159.693	1206.288	1246.411	1261.942
35	1035.440	1058.737	1122.158	1179.107	1201.110
40	916.364	947.428	1022.497	1098.861	1122.158
45	795.994	833.529	916.364	1006.965	1034.146
50	669.153	722.219	805.055	909.893	939.662
55	563.020	614.792	705.393	821.880	855.532
60	447.828	504.777	604.438	718.336	758.460
65	344.284	399.939	508.660	617.381	658.799
70	254.977	310.632	428.413	530.663	564.315
75	172.142	225.208	348.167	447.828	472.419
80	100.955	163.082	282.157	371.464	396.056
85	40.123	112.604	222.620	310.632	326.164
90	0.000	68.598	173.436	251.094	264.037
95	0.000	47.889	138.490	207.088	218.737
100	0.000	31.063	102.250	165.670	174.730
105	0.000	27.180	88.012	134.607	148.844
110	0.000	16.826	63.421	106.133	117.781
115	0.000	15.532	55.655	89.307	100.955
120	0.000	14.237	44.006	73.775	85.424
125	0.000	10.354	33.652	59.538	68.598
130	0.000	0.000	32.357	53.066	58.243
135	0.000	0.000	22.003	38.829	47.889
140	0.000	0.000	19.414	33.652	37.535
145	0.000	0.000	0.000	25.886	31.063
150	0.000	0.000	0.000	22.003	25.886
155	0.000	0.000	0.000	18.120	18.120
160	0.000	0.000	0.000	15.532	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	10.354	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	527.82	N.A.	11.50
0-30	1115.54	N.A.	24.30
0-40	1814.87	N.A.	39.60
0-60	3159.75	N.A.	68.90
0-80	4024.01	N.A.	87.70
0-90	4252.22	N.A.	92.70
10-90	4115.54	N.A.	89.70
20-40	1287.05	N.A.	28.10
20-50	1995.5	N.A.	43.50
40-70	1850.48	N.A.	40.30
60-80	864.26	N.A.	18.80
70-80	358.66	N.A.	7.80
80-90	228.21	N.A.	5.00
90-110	222.36	N.A.	4.80
90-120	274.68	N.A.	6.00
90-130	306.47	N.A.	6.70
90-150	331.32	N.A.	7.20
90-180	334.85	N.A.	7.30
110-180	112.49	N.A.	2.50
0-180	4587.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.69
10-20	391.14
20-30	587.72
30-40	699.33
40-50	708.45
50-60	636.43
60-70	505.60
70-80	358.66
80-90	228.21
90-100	137.62
100-110	84.75
110-120	52.32
120-130	31.78
130-140	17.32
140-150	7.54
150-160	3.09
160-170	0.32
170-180	0.12

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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

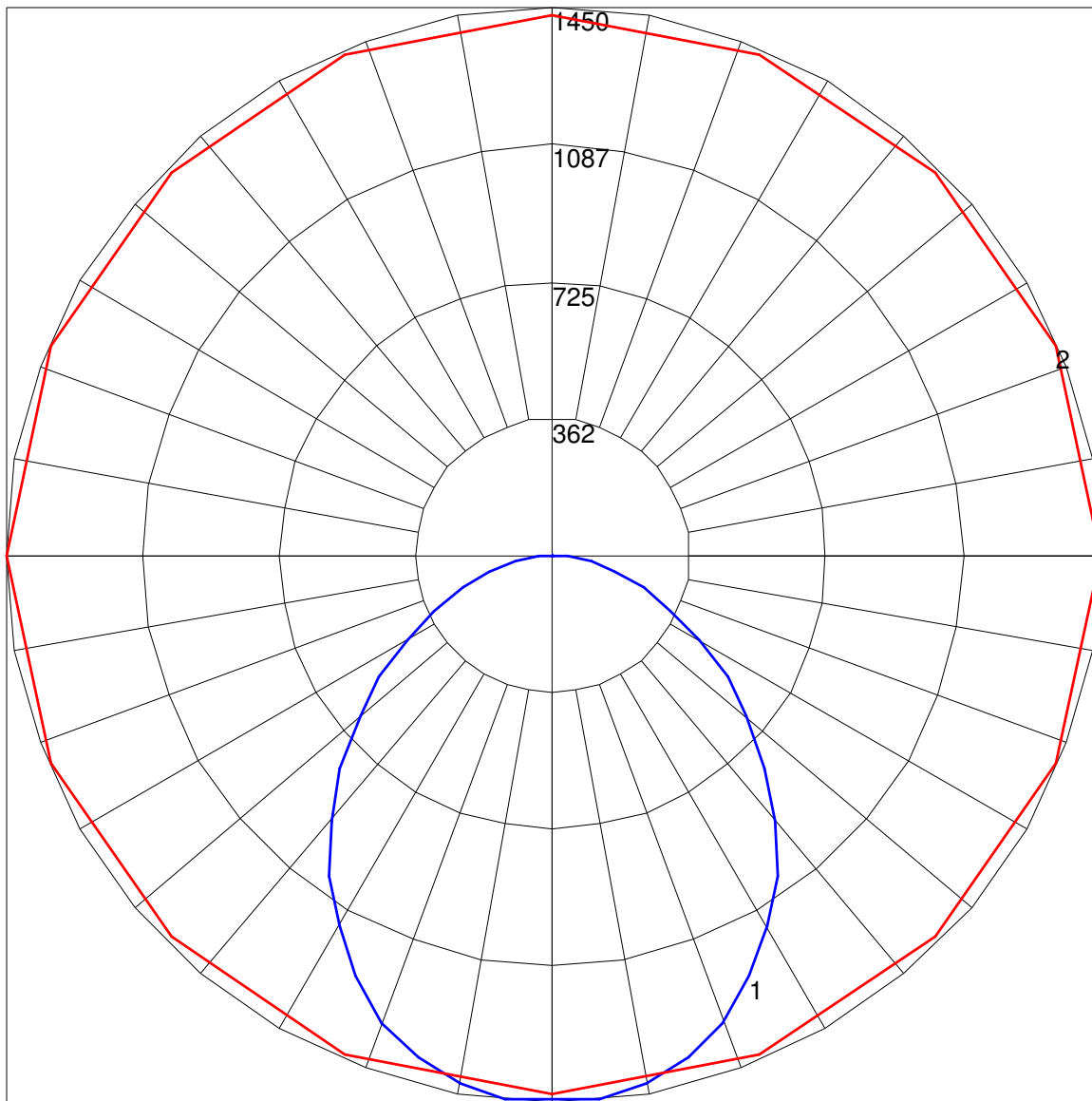
Reflectances

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	17.8	19.3	18.3	19.8	20.3	20.2	21.7	20.7	22.2	22.7
	3H	19.2	20.6	19.7	21.1	21.6	22.4	23.8	22.9	24.3	24.8
	4H	19.7	21.0	20.2	21.5	22.0	23.5	24.8	24.0	25.3	25.8
	6H	20.0	21.2	20.6	21.7	22.3	24.5	25.7	25.0	26.2	26.8
	8H	20.1	21.3	20.6	21.8	22.4	25.0	26.2	25.5	26.7	27.2
	12H	20.2	21.3	20.7	21.8	22.4	25.5	26.6	26.1	27.1	27.7
4H	2H	18.5	19.8	19.0	20.3	20.9	20.5	21.8	21.0	22.3	22.8
	3H	20.2	21.3	20.7	21.8	22.4	23.0	24.1	23.5	24.6	25.2
	4H	20.8	21.8	21.3	22.3	22.9	24.2	25.2	24.7	25.7	26.3
	6H	21.2	22.1	21.8	22.7	23.3	25.4	26.3	26.0	26.9	27.5
	8H	21.4	22.2	21.9	22.8	23.4	26.0	26.9	26.6	27.4	28.0
	12H	21.4	22.2	22.0	22.8	23.4	26.7	27.4	27.2	28.0	28.6
8H	4H	21.3	22.1	21.9	22.7	23.3	24.3	25.2	24.9	25.7	26.4
	6H	21.9	22.6	22.5	23.2	23.9	25.7	26.4	26.3	27.0	27.7
	8H	22.2	22.8	22.8	23.4	24.0	26.5	27.1	27.1	27.7	28.4
	12H	22.3	22.9	22.9	23.5	24.2	27.3	27.9	27.9	28.5	29.2
12H	4H	21.4	22.2	22.0	22.8	23.4	24.3	25.1	24.9	25.7	26.3
	6H	22.1	22.8	22.8	23.4	24.1	25.8	26.4	26.4	27.0	27.7
	8H	22.4	23.0	23.0	23.6	24.3	26.5	27.1	27.1	27.7	28.4

Maximum UGR = 29.2

POLAR GRAPH



Maximum Candela = 1449.616 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.)