



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 12-2-L43-835-SAF12125-(L30)-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18637.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIE, INC
 [ISSUEDATE] 20-OCT-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2x2' WHITE SURFACE MOUNT LED LUMINAIRE
 [MORE] INTERNAL WHITE REFL w/PAT12 LENS (PRISMS DOWN)
 [LUMCAT] 12-2-L43-835-SAF12125-(L30)-DIM-UNV
 [LAMPCAT] HLM 80 CRI 3500K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] INDOOR
 [_SEARCH_MOUNTING] SURFACE

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3062
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.12
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.89 ft
Luminous Width (90-270)	1.80 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3179	3107	3071
55	2657	2554	2510
65	2197	2102	2083
75	1865	1825	1940
85	1938	1965	2281

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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	1399.219	1399.219	1399.219	1399.219	1399.219
5	1366.138	1366.138	1364.321	1363.594	1364.321
10	1344.327	1342.509	1341.782	1342.509	1341.782
15	1278.892	1277.074	1275.620	1275.620	1275.620
20	1245.811	1241.812	1241.812	1240.721	1238.540
25	1141.478	1140.751	1137.479	1136.025	1137.479
30	1039.690	1038.236	1034.237	1031.693	1032.420
35	938.266	934.994	929.178	926.633	926.633
40	827.390	821.937	813.939	806.669	806.669
45	711.061	705.608	695.066	687.068	687.068
50	589.279	583.826	573.284	565.286	565.286
55	482.038	474.041	463.498	454.410	455.501
60	380.977	372.980	364.255	358.439	359.166
65	293.731	286.460	281.007	278.462	278.462
70	222.116	216.299	211.573	214.845	218.117
75	152.682	149.410	149.410	154.136	158.862
80	101.788	101.788	101.788	108.331	113.057
85	53.439	53.439	54.166	61.436	62.890
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	492.76	N.A.	16.10
0-30	1017.44	N.A.	33.20
0-40	1598.19	N.A.	52.20
0-60	2553.4	N.A.	83.40
0-80	3002.49	N.A.	98.10
0-90	3061.96	N.A.	100.00
10-90	2932.07	N.A.	95.80
20-40	1105.43	N.A.	36.10
20-50	1642.26	N.A.	53.60
40-70	1239.37	N.A.	40.50
60-80	449.09	N.A.	14.70
70-80	164.93	N.A.	5.40
80-90	59.47	N.A.	1.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3061.96	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.89
10-20	362.87
20-30	524.68
30-40	580.75
40-50	536.83
50-60	418.38
60-70	284.16
70-80	164.93
80-90	59.47
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 12-2-L43-835-SAF12125-(L30)-DIM-UNV_.IES****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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	65	73	68	64	62
4	85	74	65	59	83	72	64	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	41	34	30	40	34	30	28

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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	14.9	16.4	15.2	16.7	17.0	14.6	16.1	14.9	16.4	16.7
	3H	16.4	17.8	16.8	18.1	18.5	16.2	17.6	16.5	17.9	18.2
	4H	17.0	18.3	17.4	18.6	19.0	16.8	18.1	17.2	18.5	18.9
	6H	17.5	18.7	17.9	19.1	19.5	17.4	18.6	17.8	19.0	19.4
	8H	17.7	18.8	18.1	19.2	19.6	17.7	18.8	18.1	19.2	19.6
	12H	17.8	19.0	18.3	19.3	19.8	17.9	19.0	18.3	19.4	19.8

UGR Viewed Endwise

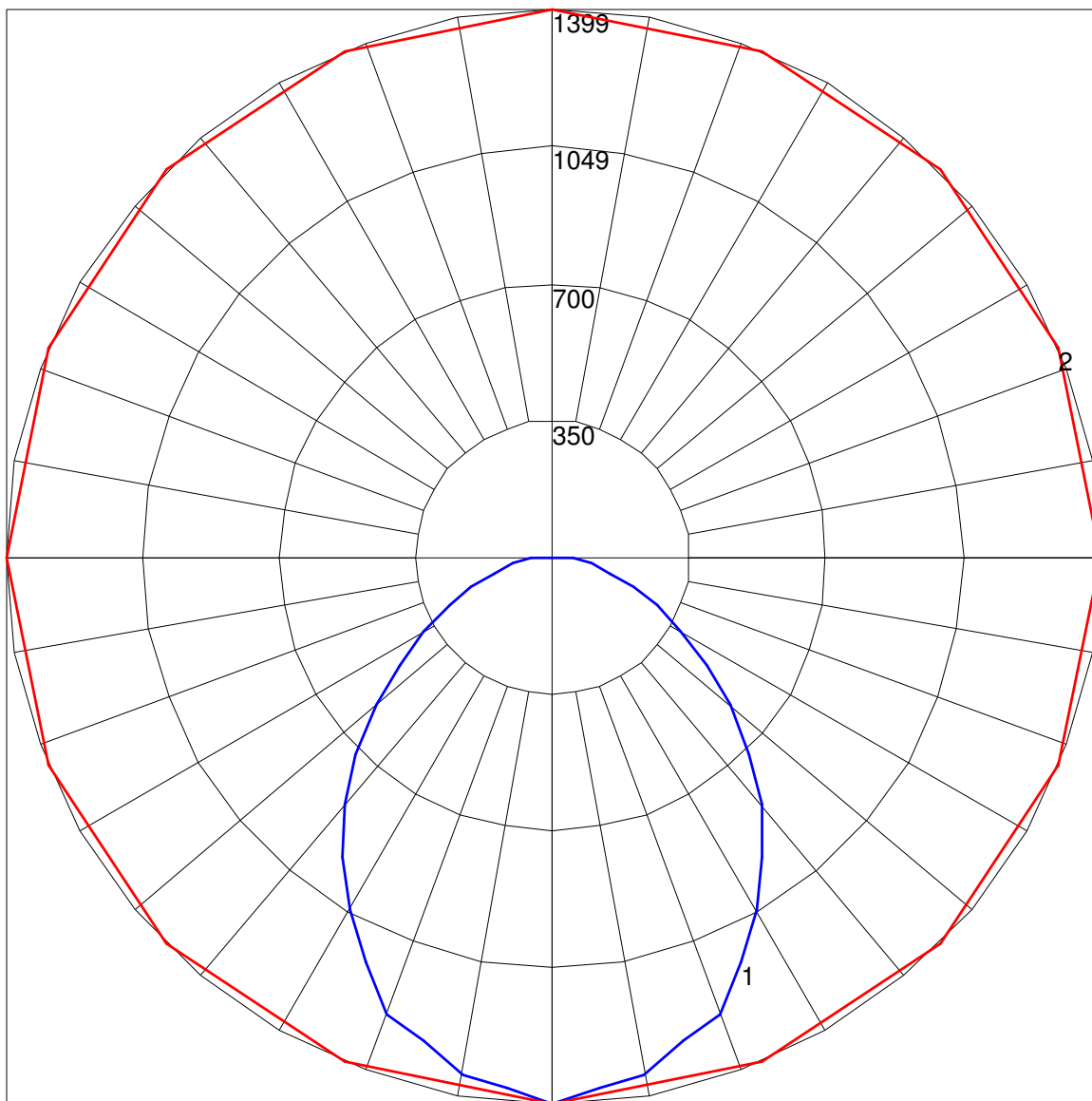
4H	2H	15.3	16.6	15.7	17.0	17.4	15.1	16.4	15.5	16.7	17.1
	3H	17.1	18.2	17.5	18.6	19.0	16.9	18.0	17.3	18.4	18.8
	4H	17.8	18.8	18.3	19.2	19.7	17.7	18.7	18.2	19.1	19.6
	6H	18.5	19.3	18.9	19.8	20.2	18.5	19.4	18.9	19.8	20.3
	8H	18.7	19.6	19.2	20.0	20.5	18.8	19.6	19.3	20.1	20.5
	12H	19.0	19.7	19.5	20.2	20.6	19.1	19.8	19.6	20.3	20.8

8H	4H	18.1	18.9	18.6	19.4	19.8	18.0	18.8	18.5	19.3	19.7
	6H	18.9	19.6	19.4	20.1	20.5	19.0	19.6	19.4	20.1	20.6
	8H	19.3	19.9	19.8	20.4	20.9	19.4	20.0	19.9	20.5	21.0
	12H	19.6	20.1	20.1	20.6	21.2	19.8	20.3	20.3	20.8	21.4

12H	4H	18.1	18.9	18.6	19.3	19.8	18.0	18.8	18.5	19.2	19.7
	6H	19.0	19.6	19.5	20.1	20.6	19.0	19.6	19.6	20.1	20.6
	8H	19.4	19.9	19.9	20.4	21.0	19.5	20.1	20.0	20.5	21.1

Maximum UGR = 21.4

POLAR GRAPH



Maximum Candela = 1399.219 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)