



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L15-930-DRV-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19750.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 2022-02-25
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 22.5 INCH LED STRIP LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS
 [LUMCAT] 75R-2-L15-930-DRV-UNV
 [LAMPCAT] HLM LED BOARD
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing, Utility, Warehouse, Linear
 [_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1239
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	10.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8370	7165	7254
55	6835	6108	6386
65	5534	5105	5379
75	3611	4166	4408
85	1870	3537	3614

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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	396.836	396.836	396.836	396.836	396.836
5	401.193	395.321	395.510	394.563	390.585
10	394.563	389.638	390.585	390.017	386.418
15	383.008	379.409	382.061	383.198	379.409
20	365.582	364.635	369.181	371.075	368.802
25	345.124	346.450	352.891	357.247	355.542
30	321.636	323.530	334.517	341.146	340.768
35	293.034	296.443	312.355	321.636	322.962
40	262.537	264.999	285.078	299.095	302.315
45	226.547	232.798	255.907	274.470	279.017
50	189.231	199.270	227.494	247.762	253.445
55	153.431	166.501	198.323	219.538	227.684
60	123.502	135.625	170.289	191.504	200.028
65	94.900	108.159	144.149	163.470	170.857
70	66.487	84.292	119.335	136.193	143.391
75	40.915	63.645	96.415	112.326	118.577
80	22.730	43.946	76.905	91.680	95.657
85	9.660	30.307	61.372	74.063	76.715
90	1.326	20.836	47.545	58.720	62.319
95	0.189	14.207	38.074	46.597	50.386
100	0.000	9.282	29.550	38.074	41.104
105	0.000	6.630	22.920	31.065	33.527
110	0.000	4.546	17.616	25.382	27.466
115	0.000	3.788	14.396	21.215	22.730
120	0.000	2.841	10.986	17.427	18.942
125	0.000	1.705	8.145	13.828	15.532
130	0.000	1.137	5.872	10.797	12.312
135	0.000	0.568	4.357	8.524	9.660
140	0.000	0.568	3.031	6.630	7.577
145	0.000	0.000	1.894	4.167	5.304
150	0.000	0.000	1.326	3.031	3.788
155	0.000	0.000	0.947	1.515	2.462
160	0.000	0.000	0.379	1.137	1.326
165	0.000	0.000	0.000	0.379	0.568
170	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	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	145.11	N.A.	11.70
0-30	307.20	N.A.	24.80
0-40	500.63	N.A.	40.40
0-60	870.31	N.A.	70.20
0-80	1100.41	N.A.	88.80
0-90	1158.24	N.A.	93.50
10-90	1120.67	N.A.	90.50
20-40	355.52	N.A.	28.70
20-50	551.50	N.A.	44.50
40-70	505.97	N.A.	40.80
60-80	230.10	N.A.	18.60
70-80	93.81	N.A.	7.60
80-90	57.83	N.A.	4.70
90-110	55.19	N.A.	4.50
90-120	67.84	N.A.	5.50
90-130	75.02	N.A.	6.10
90-150	80.15	N.A.	6.50
90-180	80.69	N.A.	6.50
110-180	25.50	N.A.	2.10
0-180	1238.93	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	37.57
10-20	107.54
20-30	162.09
30-40	193.42
40-50	195.99
50-60	173.69
60-70	136.29
70-80	93.81
80-90	57.83
90-100	34.43
100-110	20.76
110-120	12.65
120-130	7.18
130-140	3.63
140-150	1.50
150-160	0.47
160-170	0.07
170-180	0.00

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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	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

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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	15.8	17.3	16.3	17.8	18.3	19.1	20.6	19.6	21.1	21.6
	3H	17.0	18.4	17.5	18.8	19.4	21.3	22.7	21.8	23.1	23.7
	4H	17.4	18.6	17.9	19.1	19.7	22.3	23.6	22.8	24.1	24.6
	6H	17.5	18.7	18.1	19.2	19.8	23.3	24.5	23.8	25.0	25.6
	8H	17.6	18.7	18.1	19.2	19.8	23.8	24.9	24.3	25.5	26.0
	12H	17.6	18.7	18.1	19.2	19.8	24.3	25.4	24.9	25.9	26.5

UGR Viewed Endwise

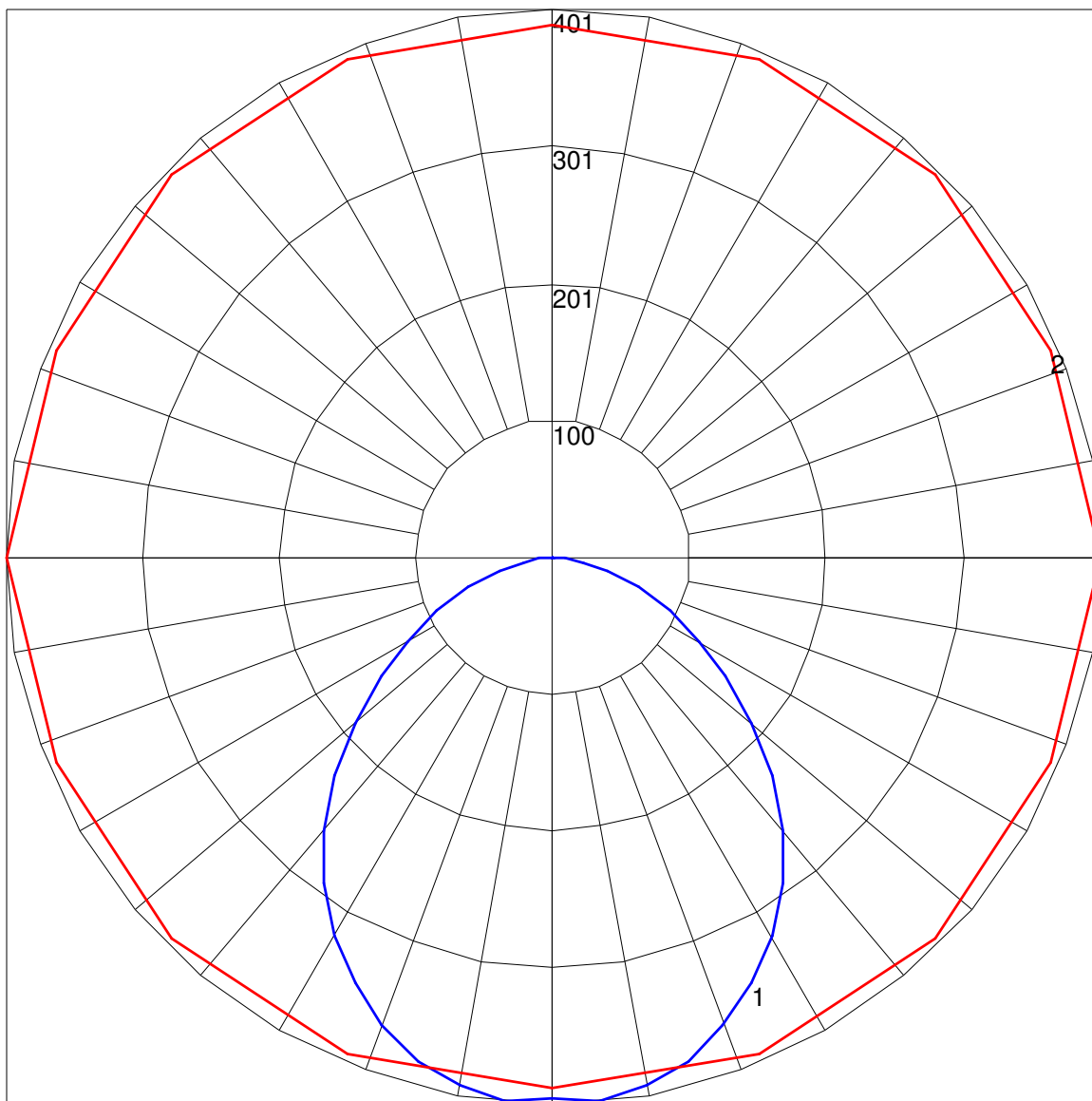
4H	2H	16.9	18.2	17.4	18.6	19.2	19.5	20.7	20.0	21.2	21.8
	3H	18.3	19.4	18.8	19.9	20.5	21.8	22.9	22.4	23.5	24.0
	4H	18.8	19.8	19.3	20.3	20.9	23.0	24.0	23.6	24.5	25.1
	6H	19.1	19.9	19.6	20.5	21.1	24.2	25.1	24.8	25.6	26.2
	8H	19.1	19.9	19.7	20.5	21.1	24.8	25.6	25.4	26.2	26.8
	12H	19.1	19.9	19.7	20.5	21.1	25.4	26.2	26.0	26.8	27.4

8H	4H	19.5	20.3	20.1	20.9	21.5	23.2	24.0	23.7	24.6	25.2
	6H	20.0	20.7	20.6	21.3	21.9	24.5	25.2	25.1	25.8	26.4
	8H	20.1	20.8	20.8	21.4	22.0	25.2	25.9	25.8	26.5	27.1
	12H	20.2	20.8	20.8	21.4	22.1	26.0	26.6	26.6	27.2	27.9

12H	4H	19.7	20.5	20.3	21.1	21.7	23.2	23.9	23.8	24.5	25.1
	6H	20.3	20.9	20.9	21.5	22.2	24.5	25.2	25.2	25.7	26.4
	8H	20.5	21.1	21.1	21.7	22.4	25.3	25.9	25.9	26.5	27.2

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 401.193 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.)