



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-840-(L70)-DIM-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] 31 JAN 2022

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 89.25 INCH SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-100-840-(L70)-DIM-UNV

[LAMPCAT] HLM 80 CRI 4000K CCT

[_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	7241
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	167
Total Luminaire Watts	43.4
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)	7.44 ft
Luminous Width (90-270)	0.23 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11605	9997	9980
55	9632	8634	8859
65	8007	7339	7538
75	5518	6135	6261
85	3510	5425	5241

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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	2319.201	2319.201	2319.201	2319.201	2319.201
5	2344.662	2310.345	2311.452	2305.916	2282.669
10	2305.916	2277.134	2282.669	2279.348	2258.315
15	2238.388	2217.355	2232.853	2239.495	2217.355
20	2136.543	2131.008	2157.576	2168.646	2155.362
25	2016.985	2024.734	2062.373	2087.834	2077.871
30	1879.715	1890.785	1954.992	1993.738	1991.524
35	1712.555	1732.482	1825.471	1879.715	1887.464
40	1534.326	1548.717	1666.061	1747.980	1766.799
45	1323.992	1360.524	1495.580	1604.068	1630.636
50	1105.910	1164.582	1329.527	1447.978	1481.189
55	896.684	973.068	1159.047	1283.033	1330.634
60	721.775	792.624	995.208	1119.194	1169.010
65	554.616	632.107	842.440	955.356	998.529
70	388.563	492.623	697.421	795.945	838.012
75	239.116	371.958	563.472	656.461	692.993
80	132.842	256.828	449.449	535.796	559.044
85	56.458	177.123	358.674	432.844	448.342
90	7.749	121.772	277.861	343.175	364.209
95	1.107	83.026	222.510	272.326	294.467
100	0.000	54.244	172.695	222.510	240.223
105	0.000	38.746	133.949	181.551	195.942
110	0.000	26.568	102.953	148.340	160.517
115	0.000	22.140	84.133	123.986	132.842
120	0.000	16.605	64.207	101.846	110.702
125	0.000	9.963	47.602	80.812	90.775
130	0.000	6.642	34.318	63.100	71.956
135	0.000	3.321	25.461	49.816	56.458
140	0.000	3.321	17.712	38.746	44.281
145	0.000	0.000	11.070	24.354	30.996
150	0.000	0.000	7.749	17.712	22.140
155	0.000	0.000	5.535	8.856	14.391
160	0.000	0.000	2.214	6.642	7.749
165	0.000	0.000	0.000	2.214	3.321
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	848.07	N.A.	11.70
0-30	1795.37	N.A.	24.80
0-40	2925.79	N.A.	40.40
0-60	5086.28	N.A.	70.20
0-80	6431.02	N.A.	88.80
0-90	6769.01	N.A.	93.50
10-90	6549.44	N.A.	90.50
20-40	2077.72	N.A.	28.70
20-50	3223.11	N.A.	44.50
40-70	2957.02	N.A.	40.80
60-80	1344.74	N.A.	18.60
70-80	548.22	N.A.	7.60
80-90	337.98	N.A.	4.70
90-110	322.54	N.A.	4.50
90-120	396.48	N.A.	5.50
90-130	438.46	N.A.	6.10
90-150	468.42	N.A.	6.50
90-180	471.56	N.A.	6.50
110-180	149.03	N.A.	2.10
0-180	7240.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	219.57
10-20	628.50
20-30	947.30
30-40	1130.42
40-50	1145.39
50-60	1015.1
60-70	796.52
70-80	548.22
80-90	337.98
90-100	201.23
100-110	121.30
110-120	73.95
120-130	41.97
130-140	21.21
140-150	8.76
150-160	2.74
160-170	0.40
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	17.1	18.6	17.5	19.0	19.5	20.4	21.9	20.9	22.4	22.9
	3H	18.3	19.6	18.8	20.1	20.6	22.6	24.0	23.1	24.5	25.0
	4H	18.6	19.9	19.1	20.4	20.9	23.7	25.0	24.2	25.5	26.0
	6H	18.8	20.0	19.3	20.5	21.0	24.8	25.9	25.3	26.4	27.0
	8H	18.8	20.0	19.4	20.5	21.1	25.3	26.4	25.8	27.0	27.5
	12H	18.8	19.9	19.4	20.4	21.0	25.9	27.0	26.4	27.5	28.1

UGR Viewed Endwise

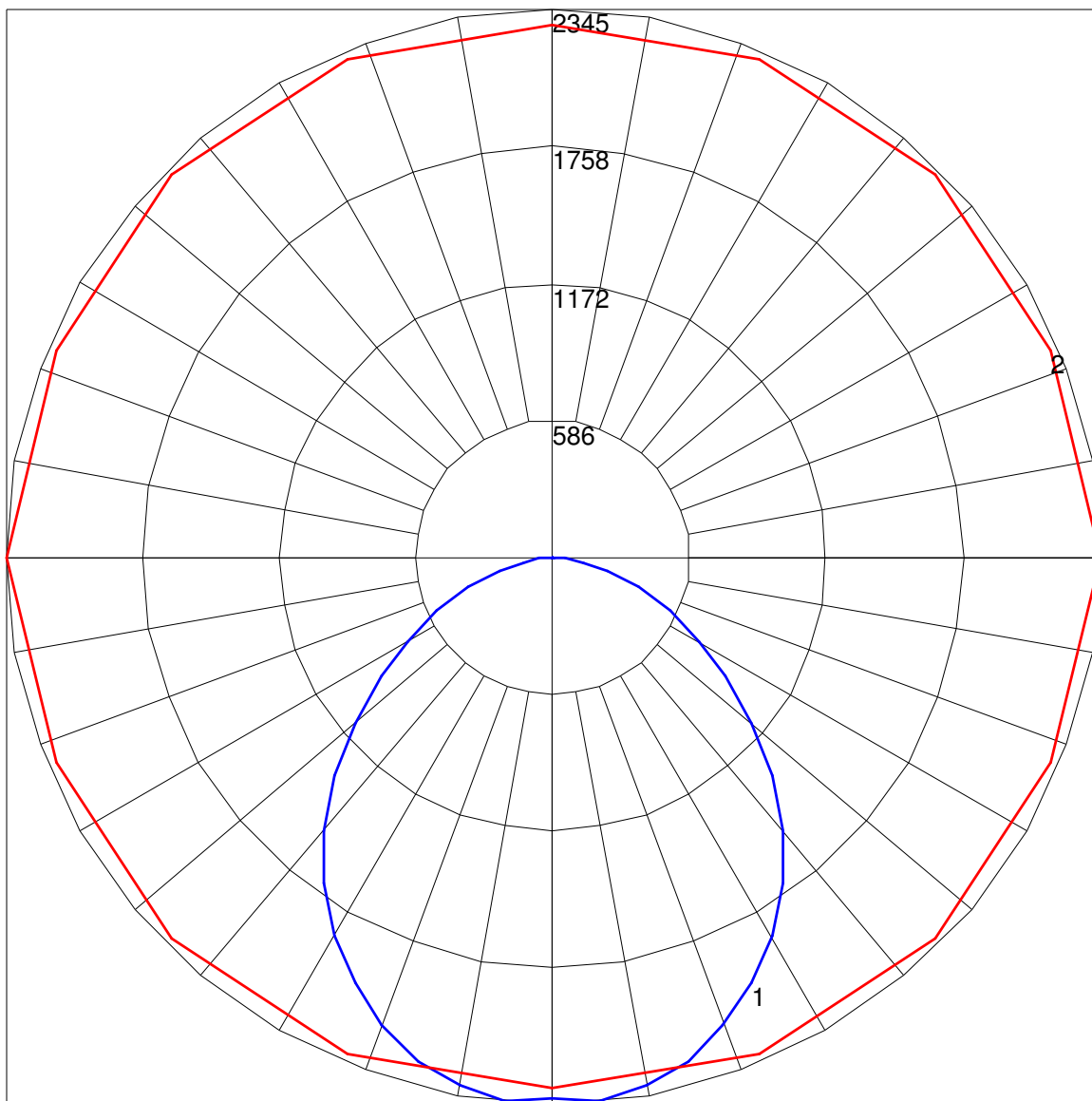
4H	2H	18.1	19.4	18.6	19.9	20.5	20.8	22.0	21.3	22.5	23.1
	3H	19.6	20.7	20.1	21.2	21.8	23.2	24.3	23.7	24.8	25.4
	4H	20.1	21.1	20.6	21.6	22.2	24.4	25.4	24.9	25.9	26.5
	6H	20.4	21.2	20.9	21.8	22.4	25.7	26.5	26.2	27.1	27.7
	8H	20.4	21.2	21.0	21.8	22.4	26.3	27.1	26.9	27.7	28.3
	12H	20.4	21.2	21.0	21.8	22.4	27.0	27.8	27.6	28.4	29.0

8H	4H	20.8	21.7	21.4	22.2	22.9	24.6	25.4	25.1	25.9	26.6
	6H	21.3	22.0	21.9	22.6	23.2	26.0	26.7	26.6	27.3	27.9
	8H	21.5	22.1	22.1	22.7	23.4	26.7	27.4	27.4	28.0	28.6
	12H	21.6	22.1	22.2	22.7	23.4	27.6	28.2	28.2	28.8	29.5

12H	4H	21.1	21.8	21.6	22.4	23.0	24.6	25.3	25.1	25.9	26.5
	6H	21.7	22.3	22.3	22.9	23.6	26.0	26.6	26.6	27.2	27.9
	8H	21.9	22.5	22.5	23.1	23.8	26.8	27.4	27.4	28.0	28.7

Maximum UGR = 29.5

POLAR GRAPH



Maximum Candela = 2344.662 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.)