

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-RGB835-DMX-UNV WHITE ONLY_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 30 Nov, 2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L100-RGB835-DMX-UNV white only

[SEARCH_SOURCE TYPE] 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	9889
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	89.2
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)	0.21 ft
Luminous Height	0.10 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17527	14724	14592
55	14547	12626	12846
65	12093	10633	10822
75	8334	8769	8867
85	5301	7578	7271

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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	3167.640	3167.640	3167.640	3167.640	3167.640
5	3202.416	3155.544	3157.056	3149.496	3117.744
10	3149.496	3110.184	3117.744	3113.208	3084.480
15	3057.264	3028.536	3049.704	3058.776	3028.536
20	2918.160	2910.600	2946.888	2962.008	2943.864
25	2754.864	2765.448	2816.856	2851.632	2838.024
30	2567.376	2582.496	2670.192	2723.112	2720.088
35	2339.064	2366.280	2493.288	2567.376	2577.960
40	2095.632	2115.288	2275.560	2387.448	2413.152
45	1808.352	1858.248	2042.712	2190.888	2227.176
50	1510.488	1590.624	1815.912	1977.696	2023.056
55	1224.720	1329.048	1583.064	1752.408	1817.424
60	985.824	1082.592	1359.288	1528.632	1596.672
65	757.512	863.352	1150.632	1304.856	1363.824
70	530.712	672.840	952.560	1087.128	1144.584
75	326.592	508.032	769.608	896.616	946.512
80	181.440	350.784	613.872	731.808	763.560
85	77.112	241.920	489.888	591.192	612.360
90	10.584	166.320	379.512	468.720	497.448
95	1.512	113.400	303.912	371.952	402.192
100	0.000	74.088	235.872	303.912	328.104
105	0.000	52.920	182.952	247.968	267.624
110	0.000	36.288	140.616	202.608	219.240
115	0.000	30.240	114.912	169.344	181.440
120	0.000	22.680	87.696	139.104	151.200
125	0.000	13.608	65.016	110.376	123.984
130	0.000	9.072	46.872	86.184	98.280
135	0.000	4.536	34.776	68.040	77.112
140	0.000	4.536	24.192	52.920	60.480
145	0.000	0.000	15.120	33.264	42.336
150	0.000	0.000	10.584	24.192	30.240
155	0.000	0.000	7.560	12.096	19.656
160	0.000	0.000	3.024	9.072	10.584
165	0.000	0.000	0.000	3.024	4.536
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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Zone	Lumens	%Lamp	%Fixt
0-20	1158.32	N.A.	11.70
0-30	2452.17	N.A.	24.80
0-40	3996.13	N.A.	40.40
0-60	6947.01	N.A.	70.20
0-80	8783.7	N.A.	88.80
0-90	9245.33	N.A.	93.50
10-90	8945.44	N.A.	90.50
20-40	2837.81	N.A.	28.70
20-50	4402.23	N.A.	44.50
40-70	4038.79	N.A.	40.80
60-80	1836.69	N.A.	18.60
70-80	748.78	N.A.	7.60
80-90	461.63	N.A.	4.70
90-110	440.53	N.A.	4.50
90-120	541.53	N.A.	5.50
90-130	598.86	N.A.	6.10
90-150	639.79	N.A.	6.50
90-180	644.08	N.A.	6.50
110-180	203.55	N.A.	2.10
0-180	9889.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	299.89
10-20	858.43
20-30	1293.85
30-40	1543.96
40-50	1564.42
50-60	1386.46
60-70	1087.91
70-80	748.78
80-90	461.63
90-100	274.85
100-110	165.68
110-120	101.00
120-130	57.33
130-140	28.97
140-150	11.97
150-160	3.74
160-170	0.55
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	211	211	211	211	204	204	204	204	193	193	193	182	182	182	172	172	172	167
1	190	181	172	164	184	175	168	161	165	159	153	156	151	147	148	144	140	136
2	172	157	144	133	166	152	140	130	144	134	126	136	128	121	129	122	117	112
3	157	137	122	110	151	134	120	108	127	115	105	120	110	102	114	106	98	94
4	144	122	105	93	138	118	103	92	112	100	89	107	96	87	102	92	84	80
5	132	109	92	80	127	106	91	79	101	87	77	96	84	75	91	81	73	69
6	122	98	82	70	118	95	80	69	91	78	68	87	75	66	83	73	65	61
7	113	89	73	62	109	87	72	61	83	69	60	79	67	59	76	65	57	54
8	105	81	66	55	102	79	65	54	76	63	53	73	61	52	70	59	51	48
9	98	74	59	49	95	73	59	49	70	57	48	67	56	47	64	54	46	43
10	92	68	54	45	89	67	54	44	65	52	44	62	51	43	60	50	42	39

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UGR TABLE - CORRECTED

Reflectances

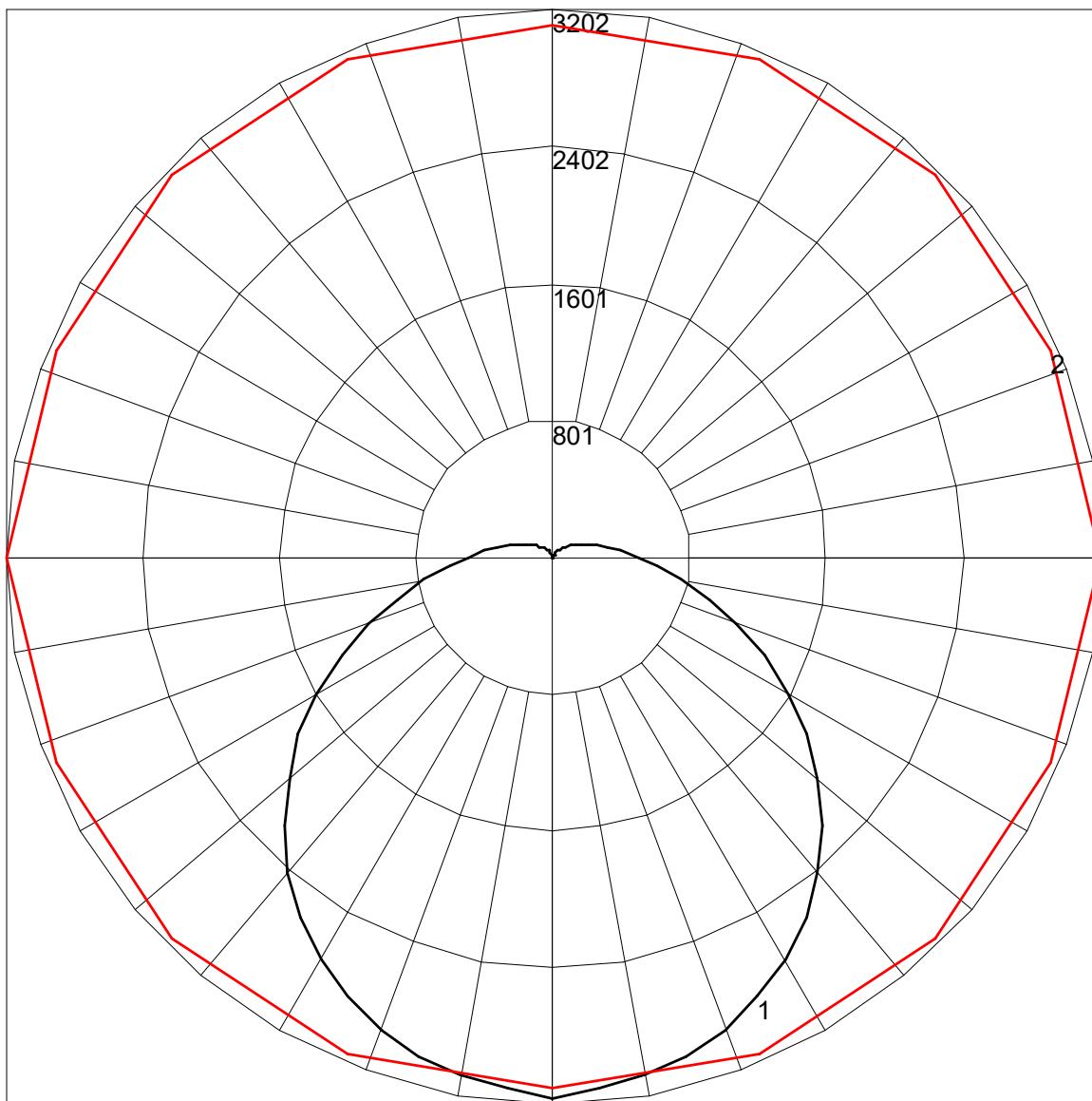
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	16.3	17.8	16.7	18.2	18.7	19.7	21.2	20.2	21.7	22.1
	3H	17.5	18.8	17.9	19.3	19.8	21.9	23.3	22.4	23.8	24.3
	4H	17.8	19.1	18.3	19.6	20.1	23.0	24.3	23.5	24.7	25.3
	6H	18.0	19.2	18.5	19.7	20.2	24.0	25.2	24.6	25.7	26.3
	8H	18.0	19.1	18.5	19.7	20.2	24.6	25.7	25.1	26.2	26.8
	12H	18.0	19.1	18.5	19.6	20.2	25.2	26.3	25.7	26.8	27.4
4H	2H	17.3	18.6	17.9	19.1	19.7	20.0	21.3	20.5	21.8	22.3
	3H	18.8	19.9	19.3	20.4	21.0	22.5	23.6	23.0	24.1	24.6
	4H	19.2	20.2	19.8	20.8	21.4	23.7	24.7	24.2	25.2	25.8
	6H	19.5	20.4	20.1	21.0	21.6	24.9	25.8	25.5	26.4	27.0
	8H	19.6	20.4	20.2	21.0	21.6	25.6	26.4	26.1	26.9	27.6
	12H	19.6	20.4	20.2	21.0	21.6	26.3	27.0	26.9	27.6	28.2
8H	4H	20.0	20.8	20.6	21.4	22.0	23.8	24.6	24.4	25.2	25.8
	6H	20.5	21.2	21.1	21.8	22.4	25.2	25.9	25.8	26.5	27.1
	8H	20.6	21.3	21.3	21.9	22.5	26.0	26.6	26.6	27.2	27.9
	12H	20.7	21.3	21.3	21.9	22.6	26.9	27.4	27.5	28.0	28.7
12H	4H	20.2	21.0	20.8	21.6	22.2	23.8	24.6	24.4	25.2	25.8
	6H	20.8	21.4	21.4	22.0	22.7	25.3	25.9	25.9	26.5	27.1
	8H	21.0	21.6	21.7	22.2	22.9	26.1	26.6	26.7	27.2	27.9

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 3202.416 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)