



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L100-835-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-AUG-2020

[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-L100-835-DIM-UNV

[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	9567
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	65.9
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	16956	14244	14117
55	14074	12215	12428
65	11699	10287	10469
75	8063	8484	8578
85	5129	7332	7034

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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	3064.509	3064.509	3064.509	3064.509	3064.509
5	3098.153	3052.807	3054.270	3046.956	3016.238
10	3046.956	3008.924	3016.238	3011.850	2984.057
15	2957.727	2929.934	2950.413	2959.190	2929.934
20	2823.152	2815.838	2850.945	2865.572	2848.019
25	2665.172	2675.412	2725.146	2758.790	2745.625
30	2483.788	2498.416	2583.257	2634.454	2631.529
35	2262.910	2289.240	2412.113	2483.788	2494.028
40	2027.403	2046.419	2201.473	2309.719	2334.586
45	1749.476	1797.748	1976.206	2119.558	2154.665
50	1461.310	1538.837	1756.790	1913.307	1957.190
55	1184.846	1285.777	1531.523	1695.354	1758.253
60	953.728	1047.345	1315.033	1478.863	1544.688
65	732.849	835.243	1113.170	1262.373	1319.421
70	513.433	650.934	921.547	1051.734	1107.319
75	315.959	491.492	744.551	867.424	915.696
80	175.533	339.363	593.886	707.982	738.700
85	74.601	234.044	473.938	571.944	592.423
90	10.239	160.905	367.156	453.460	481.252
95	1.463	109.708	294.017	359.842	389.098
100	0.000	71.676	228.193	294.017	317.422
105	0.000	51.197	176.996	239.895	258.911
110	0.000	35.107	136.038	196.012	212.102
115	0.000	29.255	111.171	163.831	175.533
120	0.000	21.942	84.841	134.575	146.277
125	0.000	13.165	62.899	106.782	119.947
130	0.000	8.777	45.346	83.378	95.080
135	0.000	4.388	33.644	65.825	74.601
140	0.000	4.388	23.404	51.197	58.511
145	0.000	0.000	14.628	32.181	40.958
150	0.000	0.000	10.239	23.404	29.255
155	0.000	0.000	7.314	11.702	19.016
160	0.000	0.000	2.926	8.777	10.239
165	0.000	0.000	0.000	2.926	4.388
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	1120.61	N.A.	11.70
0-30	2372.33	N.A.	24.80
0-40	3866.03	N.A.	40.40
0-60	6720.83	N.A.	70.20
0-80	8497.73	N.A.	88.80
0-90	8944.32	N.A.	93.50
10-90	8654.19	N.A.	90.50
20-40	2745.42	N.A.	28.70
20-50	4258.9	N.A.	44.50
40-70	3907.3	N.A.	40.80
60-80	1776.89	N.A.	18.60
70-80	724.40	N.A.	7.60
80-90	446.60	N.A.	4.70
90-110	426.19	N.A.	4.50
90-120	523.90	N.A.	5.50
90-130	579.36	N.A.	6.10
90-150	618.96	N.A.	6.50
90-180	623.11	N.A.	6.50
110-180	196.92	N.A.	2.10
0-180	9567.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	290.13
10-20	830.48
20-30	1251.72
30-40	1493.7
40-50	1513.48
50-60	1341.32
60-70	1052.49
70-80	724.40
80-90	446.60
90-100	265.90
100-110	160.28
110-120	97.71
120-130	55.46
130-140	28.02
140-150	11.58
150-160	3.62
160-170	0.53
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	118	118	118	118	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	61	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

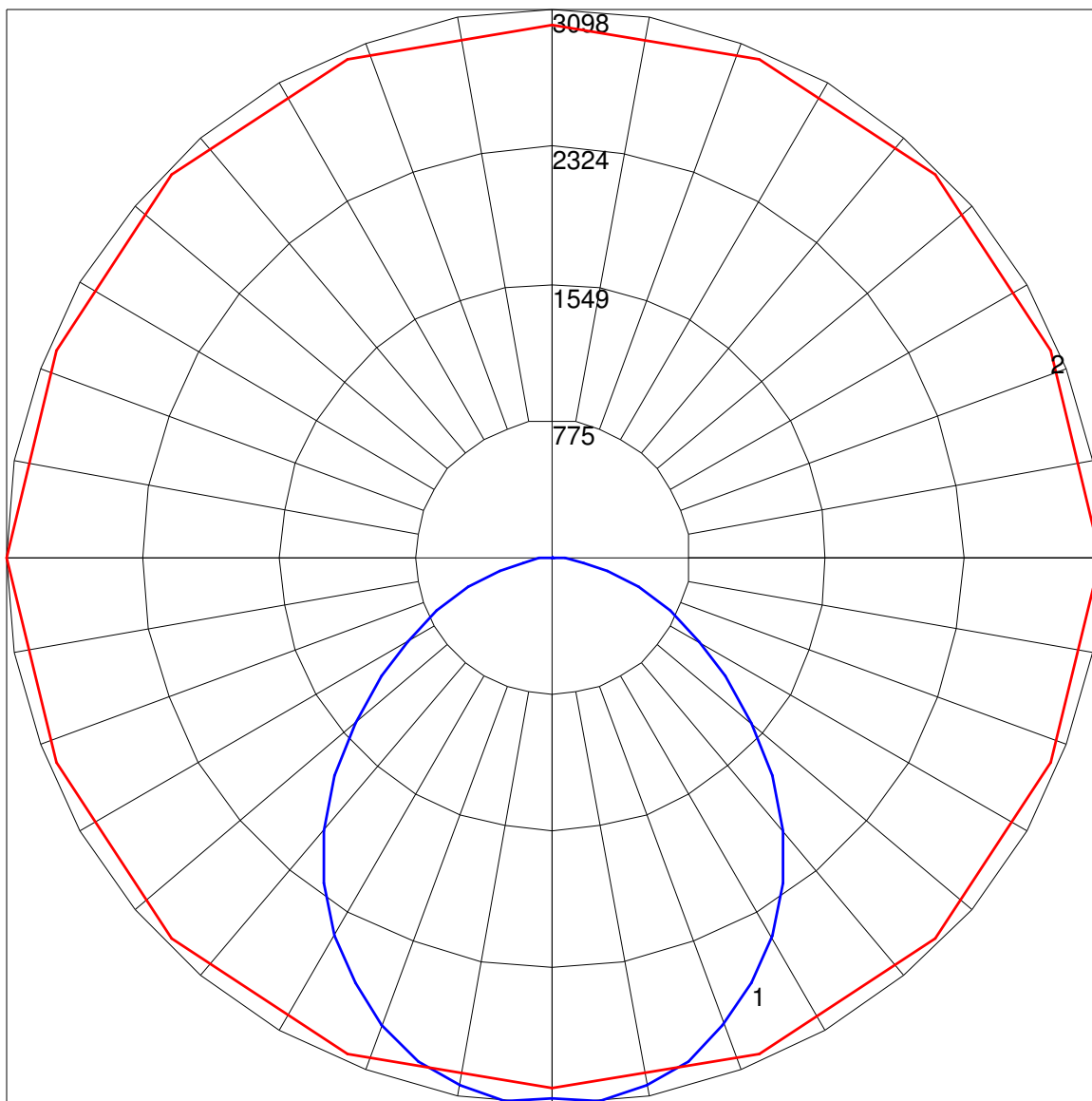
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	18.2	19.7	18.6	20.1	20.6	21.6	23.1	22.1	23.6	24.0
	3H	19.4	20.7	19.8	21.2	21.7	23.8	25.2	24.3	25.7	26.2
	4H	19.7	21.0	20.2	21.5	22.0	24.9	26.2	25.4	26.6	27.2
	6H	19.9	21.1	20.4	21.6	22.1	25.9	27.1	26.5	27.6	28.2
	8H	19.9	21.0	20.4	21.6	22.1	26.5	27.6	27.0	28.1	28.7
	12H	19.9	21.0	20.4	21.5	22.1	27.1	28.2	27.6	28.7	29.3
4H	2H	19.2	20.5	19.8	21.0	21.6	21.9	23.2	22.4	23.7	24.2
	3H	20.7	21.8	21.2	22.3	22.9	24.4	25.5	24.9	26.0	26.5
	4H	21.1	22.1	21.7	22.7	23.3	25.6	26.6	26.1	27.1	27.7
	6H	21.4	22.3	22.0	22.9	23.5	26.8	27.7	27.4	28.3	28.9
	8H	21.5	22.3	22.1	22.9	23.5	27.5	28.3	28.0	28.8	29.5
	12H	21.5	22.3	22.1	22.9	23.5	28.2	28.9	28.8	29.5	30.1
8H	4H	21.9	22.7	22.5	23.3	23.9	25.7	26.5	26.3	27.1	27.7
	6H	22.4	23.1	23.0	23.7	24.3	27.1	27.8	27.7	28.4	29.0
	8H	22.5	23.2	23.2	23.8	24.4	27.9	28.5	28.5	29.1	29.8
	12H	22.6	23.2	23.2	23.8	24.5	28.8	29.3	29.4	29.9	30.6
12H	4H	22.1	22.9	22.7	23.5	24.1	25.7	26.5	26.3	27.1	27.7
	6H	22.7	23.3	23.3	23.9	24.6	27.2	27.8	27.8	28.4	29.0
	8H	23.0	23.5	23.6	24.1	24.8	28.0	28.5	28.6	29.1	29.8

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 3098.153 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.)