



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-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] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-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	9639
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
Total Luminaire Watts	68.3
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)	3.72 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	33711	28504	28453
55	27822	24393	25049
65	22914	20489	21102
75	15483	16836	17290
85	9085	14460	14178

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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	3087.571	3087.571	3087.571	3087.571	3087.571
5	3121.468	3075.781	3077.255	3069.886	3038.936
10	3069.886	3031.567	3038.936	3034.515	3006.513
15	2979.985	2951.983	2972.616	2981.459	2951.983
20	2844.397	2837.028	2872.399	2887.137	2869.452
25	2685.229	2695.545	2745.654	2779.551	2766.287
30	2502.480	2517.218	2602.697	2654.280	2651.332
35	2279.939	2306.467	2430.265	2502.480	2512.797
40	2042.660	2061.820	2218.040	2327.100	2352.154
45	1762.642	1811.277	1991.078	2135.509	2170.879
50	1472.307	1550.418	1770.011	1927.706	1971.919
55	1193.763	1295.453	1543.049	1708.112	1771.485
60	960.905	1055.227	1324.929	1489.993	1556.313
65	738.364	841.529	1121.547	1271.873	1329.350
70	517.297	655.833	928.482	1059.649	1115.652
75	318.337	495.190	750.155	873.952	922.587
80	176.854	341.917	598.355	713.310	744.259
85	75.163	235.805	477.505	576.248	596.881
90	10.316	162.116	369.919	456.872	484.874
95	1.474	110.534	296.230	362.550	392.026
100	0.000	72.215	229.910	296.230	319.810
105	0.000	51.582	178.327	241.700	260.859
110	0.000	35.371	137.062	197.487	213.698
115	0.000	29.476	112.007	165.063	176.854
120	0.000	22.107	85.479	135.588	147.378
125	0.000	13.264	63.373	107.586	120.850
130	0.000	8.843	45.687	84.006	95.796
135	0.000	4.421	33.897	66.320	75.163
140	0.000	4.421	23.580	51.582	58.951
145	0.000	0.000	14.738	32.423	41.266
150	0.000	0.000	10.316	23.580	29.476
155	0.000	0.000	7.369	11.790	19.159
160	0.000	0.000	2.948	8.843	10.316
165	0.000	0.000	0.000	2.948	4.421
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	1129.04	N.A.	11.70
0-30	2390.19	N.A.	24.80
0-40	3895.12	N.A.	40.40
0-60	6771.41	N.A.	70.20
0-80	8561.67	N.A.	88.80
0-90	9011.63	N.A.	93.50
10-90	8719.32	N.A.	90.50
20-40	2766.08	N.A.	28.70
20-50	4290.95	N.A.	44.50
40-70	3936.7	N.A.	40.80
60-80	1790.27	N.A.	18.60
70-80	729.85	N.A.	7.60
80-90	449.96	N.A.	4.70
90-110	429.40	N.A.	4.50
90-120	527.84	N.A.	5.50
90-130	583.72	N.A.	6.10
90-150	623.62	N.A.	6.50
90-180	627.80	N.A.	6.50
110-180	198.40	N.A.	2.10
0-180	9639.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	292.31
10-20	836.73
20-30	1261.14
30-40	1504.94
40-50	1524.87
50-60	1351.42
60-70	1060.42
70-80	729.85
80-90	449.96
90-100	267.91
100-110	161.49
110-120	98.44
120-130	55.88
130-140	28.23
140-150	11.66
150-160	3.65
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	189	189	189	189	183	183	183	183	173	173	173	163	163	163	154	154	154	150
1	171	162	154	148	165	157	150	144	149	143	138	140	136	132	133	129	126	122
2	155	141	129	119	149	137	126	117	129	120	113	122	115	109	116	110	105	100
3	141	123	110	99	136	120	107	97	114	103	94	108	99	91	102	95	88	84
4	129	109	95	84	124	106	93	82	101	89	80	96	86	78	91	83	76	72
5	118	97	83	72	114	95	81	71	90	78	69	86	76	68	82	73	66	62
6	109	88	73	63	106	86	72	62	82	70	61	78	67	59	74	65	58	54
7	101	80	65	55	98	78	64	55	74	62	54	71	60	53	68	59	52	48
8	94	73	59	49	91	71	58	49	68	56	48	65	55	47	63	53	46	43
9	88	67	53	44	85	65	53	44	63	51	43	60	50	42	58	49	42	39
10	83	61	49	40	80	60	48	40	58	47	39	56	46	39	54	45	38	35

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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

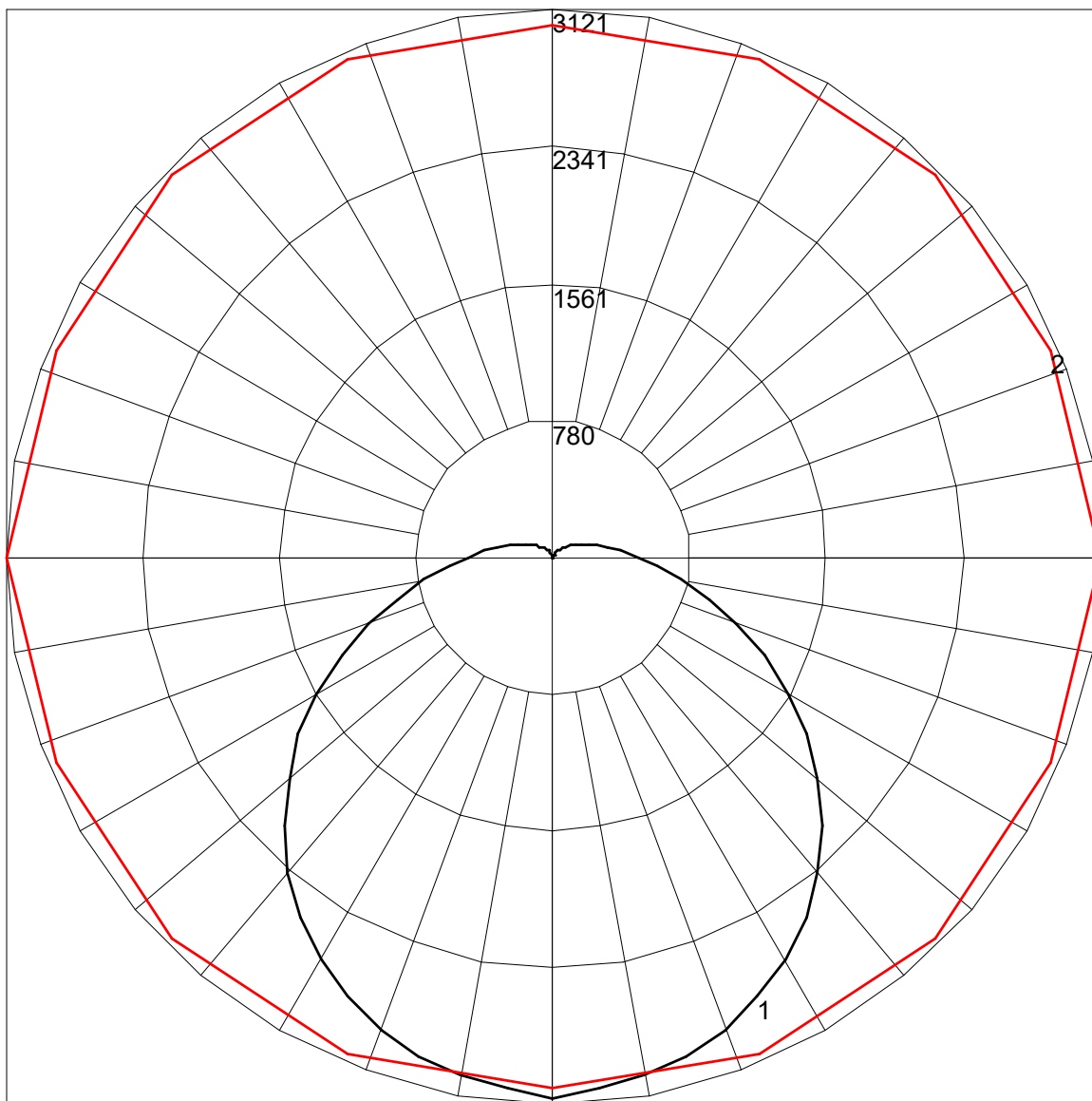
X=2H	Y=2H	19.0	20.5	19.4	20.9	21.4	22.4	23.9	22.8	24.3	24.8
	3H	20.2	21.5	20.6	22.0	22.5	24.6	25.9	25.0	26.4	26.9
	4H	20.5	21.8	21.0	22.3	22.8	25.6	26.9	26.1	27.4	27.9
	6H	20.7	21.9	21.2	22.4	22.9	26.6	27.8	27.2	28.3	28.9
	8H	20.7	21.8	21.2	22.4	22.9	27.2	28.3	27.7	28.8	29.4
	12H	20.7	21.8	21.2	22.3	22.9	27.7	28.8	28.3	29.3	29.9

UGR Viewed Endwise

4H	2H	20.0	21.3	20.5	21.8	22.3	22.7	24.0	23.2	24.5	25.0
	3H	21.5	22.6	22.0	23.1	23.6	25.1	26.2	25.6	26.7	27.3
	4H	21.9	22.9	22.5	23.5	24.1	26.3	27.3	26.8	27.8	28.4
	6H	22.2	23.1	22.8	23.6	24.3	27.5	28.4	28.1	29.0	29.6
	8H	22.3	23.1	22.8	23.7	24.3	28.1	29.0	28.7	29.5	30.1
	12H	22.3	23.0	22.9	23.6	24.3	28.8	29.6	29.4	30.2	30.8
8H	4H	22.7	23.5	23.3	24.1	24.7	26.5	27.3	27.0	27.8	28.5
	6H	23.2	23.9	23.8	24.5	25.1	27.8	28.5	28.4	29.1	29.7
	8H	23.3	23.9	23.9	24.6	25.2	28.6	29.2	29.2	29.8	30.5
	12H	23.4	24.0	24.0	24.6	25.3	29.4	30.0	30.0	30.6	31.3
12H	4H	22.9	23.6	23.5	24.2	24.9	26.4	27.2	27.0	27.8	28.4
	6H	23.5	24.1	24.1	24.7	25.4	27.9	28.5	28.5	29.1	29.8
	8H	23.7	24.3	24.3	24.9	25.6	28.6	29.2	29.3	29.8	30.5

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 3121.468 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.)