



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-(L40)-EM10WLP-DIM-UNV(EM MODE).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] 06-08-2021

[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-L50-840-(L40)-EM10WLP-DIM-UNV(EM MODE)

[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	1650
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	165
Total Luminaire Watts	10
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	5770	4879	4870
55	4762	4175	4287
65	3922	3507	3612
75	2650	2882	2959
85	1555	2475	2427

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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	528.474	528.474	528.474	528.474	528.474
5	534.276	526.456	526.708	525.447	520.150
10	525.447	518.889	520.150	519.393	514.600
15	510.060	505.267	508.798	510.312	505.267
20	486.852	485.591	491.645	494.168	491.140
25	459.609	461.374	469.951	475.753	473.483
30	428.329	430.852	445.482	454.311	453.807
35	390.238	394.779	415.968	428.329	430.095
40	349.625	352.905	379.644	398.311	402.599
45	301.697	310.021	340.796	365.517	371.572
50	252.003	265.372	302.958	329.950	337.517
55	204.327	221.732	264.111	292.364	303.211
60	164.470	180.615	226.777	255.030	266.381
65	126.380	144.038	191.966	217.696	227.534
70	88.542	112.253	158.921	181.371	190.957
75	54.487	84.758	128.398	149.587	157.912
80	30.271	58.523	102.416	122.091	127.389
85	12.865	40.361	81.731	98.632	102.163
90	1.766	27.748	63.316	78.199	82.992
95	0.252	18.919	50.703	62.055	67.100
100	0.000	12.360	39.352	50.703	54.739
105	0.000	8.829	30.523	41.370	44.649
110	0.000	6.054	23.460	33.802	36.577
115	0.000	5.045	19.171	28.253	30.271
120	0.000	3.784	14.631	23.207	25.225
125	0.000	2.270	10.847	18.415	20.685
130	0.000	1.514	7.820	14.379	16.397
135	0.000	0.757	5.802	11.351	12.865
140	0.000	0.757	4.036	8.829	10.090
145	0.000	0.000	2.523	5.550	7.063
150	0.000	0.000	1.766	4.036	5.045
155	0.000	0.000	1.261	2.018	3.279
160	0.000	0.000	0.505	1.514	1.766
165	0.000	0.000	0.000	0.505	0.757
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75R-4-L50-840-(L40)-EM10WLP-DIM-UNV(EM MODE)_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	193.25	N.A.	11.70
0-30	409.11	N.A.	24.80
0-40	666.70	N.A.	40.40
0-60	1159.01	N.A.	70.20
0-80	1465.43	N.A.	88.80
0-90	1542.45	N.A.	93.50
10-90	1492.41	N.A.	90.50
20-40	473.45	N.A.	28.70
20-50	734.45	N.A.	44.50
40-70	673.81	N.A.	40.80
60-80	306.43	N.A.	18.60
70-80	124.92	N.A.	7.60
80-90	77.02	N.A.	4.70
90-110	73.50	N.A.	4.50
90-120	90.35	N.A.	5.50
90-130	99.91	N.A.	6.10
90-150	106.74	N.A.	6.50
90-180	107.45	N.A.	6.50
110-180	33.96	N.A.	2.10
0-180	1649.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	50.03
10-20	143.22
20-30	215.86
30-40	257.59
40-50	261.00
50-60	231.31
60-70	181.50
70-80	124.92
80-90	77.02
90-100	45.86
100-110	27.64
110-120	16.85
120-130	9.56
130-140	4.83
140-150	2.00
150-160	0.62
160-170	0.09
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	14.5	16.0	14.9	16.4	16.9	17.9	19.3	18.3	19.8	20.3
	3H	15.7	17.0	16.1	17.5	18.0	20.1	21.4	20.5	21.9	22.4
	4H	16.0	17.3	16.5	17.8	18.3	21.1	22.4	21.6	22.9	23.4
	6H	16.2	17.4	16.7	17.9	18.4	22.1	23.3	22.6	23.8	24.4
	8H	16.2	17.3	16.7	17.9	18.4	22.7	23.8	23.2	24.3	24.9
	12H	16.2	17.3	16.7	17.8	18.4	23.2	24.3	23.8	24.8	25.4

UGR Viewed Endwise

4H	2H	15.5	16.8	16.0	17.3	17.8	18.2	19.5	18.7	19.9	20.5
	3H	17.0	18.1	17.5	18.6	19.1	20.6	21.7	21.1	22.2	22.8
	4H	17.4	18.4	18.0	19.0	19.6	21.8	22.8	22.3	23.3	23.9
	6H	17.7	18.6	18.3	19.1	19.8	23.0	23.9	23.6	24.5	25.1
	8H	17.8	18.6	18.3	19.2	19.8	23.6	24.5	24.2	25.0	25.6
	12H	17.8	18.5	18.4	19.1	19.8	24.3	25.1	24.9	25.7	26.3

8H	4H	18.2	19.0	18.8	19.6	20.2	21.9	22.8	22.5	23.3	24.0
	6H	18.7	19.4	19.3	20.0	20.6	23.3	24.0	23.9	24.6	25.2
	8H	18.8	19.4	19.4	20.1	20.7	24.1	24.7	24.7	25.3	26.0
	12H	18.9	19.5	19.5	20.1	20.8	24.9	25.5	25.5	26.1	26.8

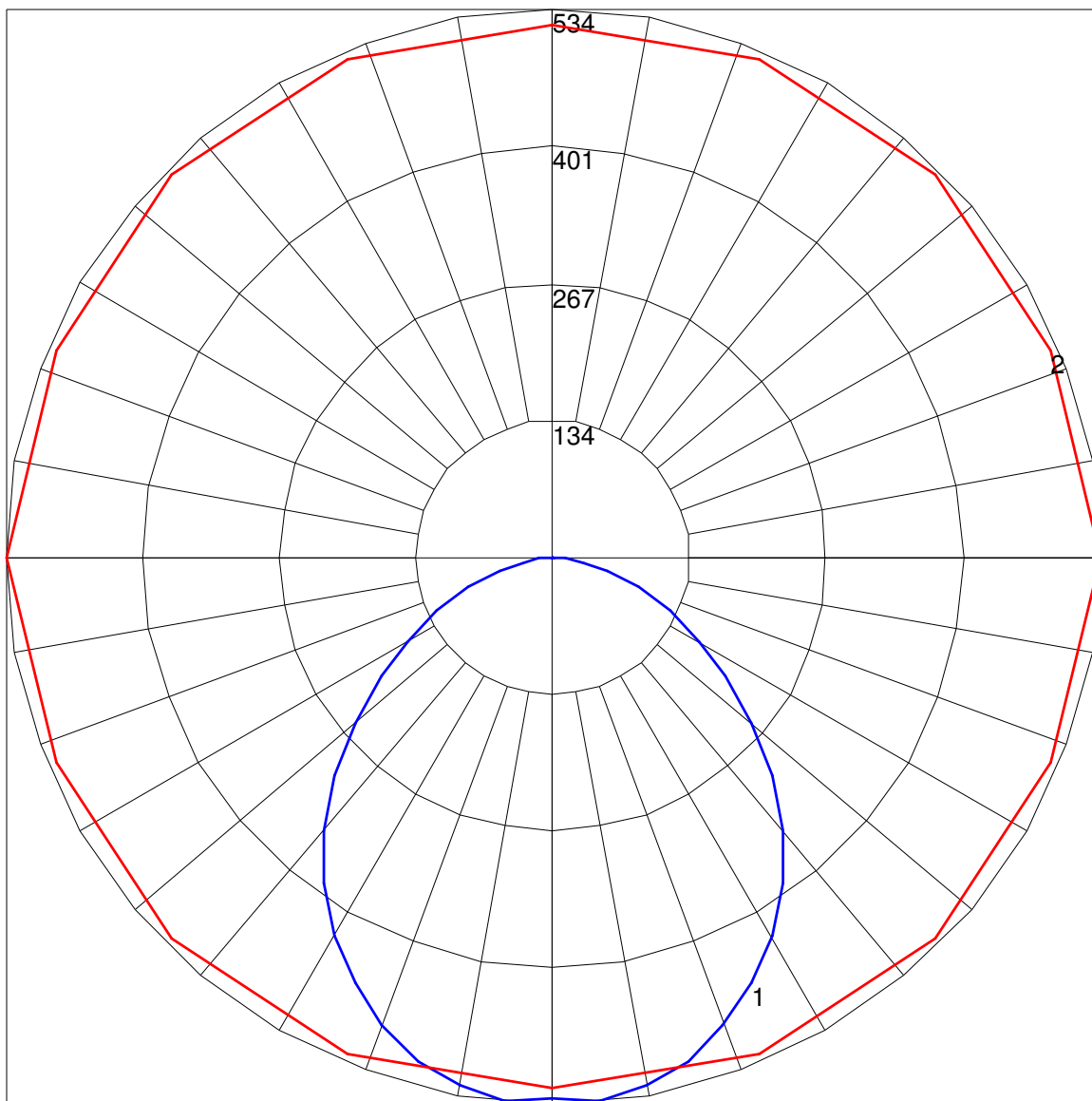
12H	4H	18.4	19.1	19.0	19.7	20.4	21.9	22.7	22.5	23.3	23.9
	6H	19.0	19.6	19.6	20.2	20.9	23.4	24.0	24.0	24.6	25.2
	8H	19.2	19.8	19.8	20.4	21.1	24.1	24.7	24.8	25.3	26.0

Maximum UGR = 26.8

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POLAR GRAPH



Maximum Candela = 534.276 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.)