



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L85-840-(L70)-EM10WLP-DIM-UNV_(EMER 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

[ISSUEDATE] 02-13-2023

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT LED STRIP

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L85-840-(L70)-EM10WLP-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	1620
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
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	5665	4790	4782
55	4676	4099	4209
65	3851	3443	3546
75	2602	2829	2906
85	1527	2430	2383

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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	518.866	518.866	518.866	518.866	518.866
5	524.562	516.884	517.132	515.893	510.692
10	515.893	509.454	510.692	509.949	505.244
15	500.786	496.080	499.547	501.033	496.080
20	478.000	476.762	482.706	485.183	482.211
25	451.252	452.986	461.406	467.103	464.874
30	420.541	423.018	437.383	446.051	445.556
35	383.143	387.601	408.405	420.541	422.275
40	343.269	346.488	372.741	391.069	395.279
45	296.212	304.385	334.600	358.872	364.816
50	247.421	260.547	297.450	323.950	331.380
55	200.611	217.701	259.309	287.048	297.698
60	161.480	177.331	222.654	250.393	261.538
65	124.082	141.419	188.476	213.738	223.397
70	86.932	110.212	156.031	178.074	187.485
75	53.496	83.217	126.063	146.867	155.040
80	29.720	57.459	100.553	119.872	125.073
85	12.631	39.627	80.245	96.838	100.306
90	1.734	27.244	62.165	76.777	81.483
95	0.248	18.575	49.781	60.926	65.880
100	0.000	12.136	38.636	49.781	53.744
105	0.000	8.668	29.968	40.618	43.837
110	0.000	5.944	23.033	33.188	35.912
115	0.000	4.953	18.823	27.739	29.720
120	0.000	3.715	14.365	22.786	24.767
125	0.000	2.229	10.650	18.080	20.309
130	0.000	1.486	7.678	14.117	16.098
135	0.000	0.743	5.696	11.145	12.631
140	0.000	0.743	3.963	8.668	9.907
145	0.000	0.000	2.477	5.449	6.935
150	0.000	0.000	1.734	3.963	4.953
155	0.000	0.000	1.238	1.981	3.220
160	0.000	0.000	0.495	1.486	1.734
165	0.000	0.000	0.000	0.495	0.743
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-L85-840-(L70)-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	189.74	N.A.	11.70
0-30	401.67	N.A.	24.80
0-40	654.57	N.A.	40.40
0-60	1137.93	N.A.	70.20
0-80	1438.79	N.A.	88.80
0-90	1514.4	N.A.	93.50
10-90	1465.28	N.A.	90.50
20-40	464.84	N.A.	28.70
20-50	721.09	N.A.	44.50
40-70	661.56	N.A.	40.80
60-80	300.85	N.A.	18.60
70-80	122.65	N.A.	7.60
80-90	75.62	N.A.	4.70
90-110	72.16	N.A.	4.50
90-120	88.70	N.A.	5.50
90-130	98.09	N.A.	6.10
90-150	104.80	N.A.	6.50
90-180	105.50	N.A.	6.50
110-180	33.34	N.A.	2.10
0-180	1619.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.12
10-20	140.61
20-30	211.94
30-40	252.90
40-50	256.25
50-60	227.11
60-70	178.20
70-80	122.65
80-90	75.62
90-100	45.02
100-110	27.14
110-120	16.54
120-130	9.39
130-140	4.74
140-150	1.96
150-160	0.61
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

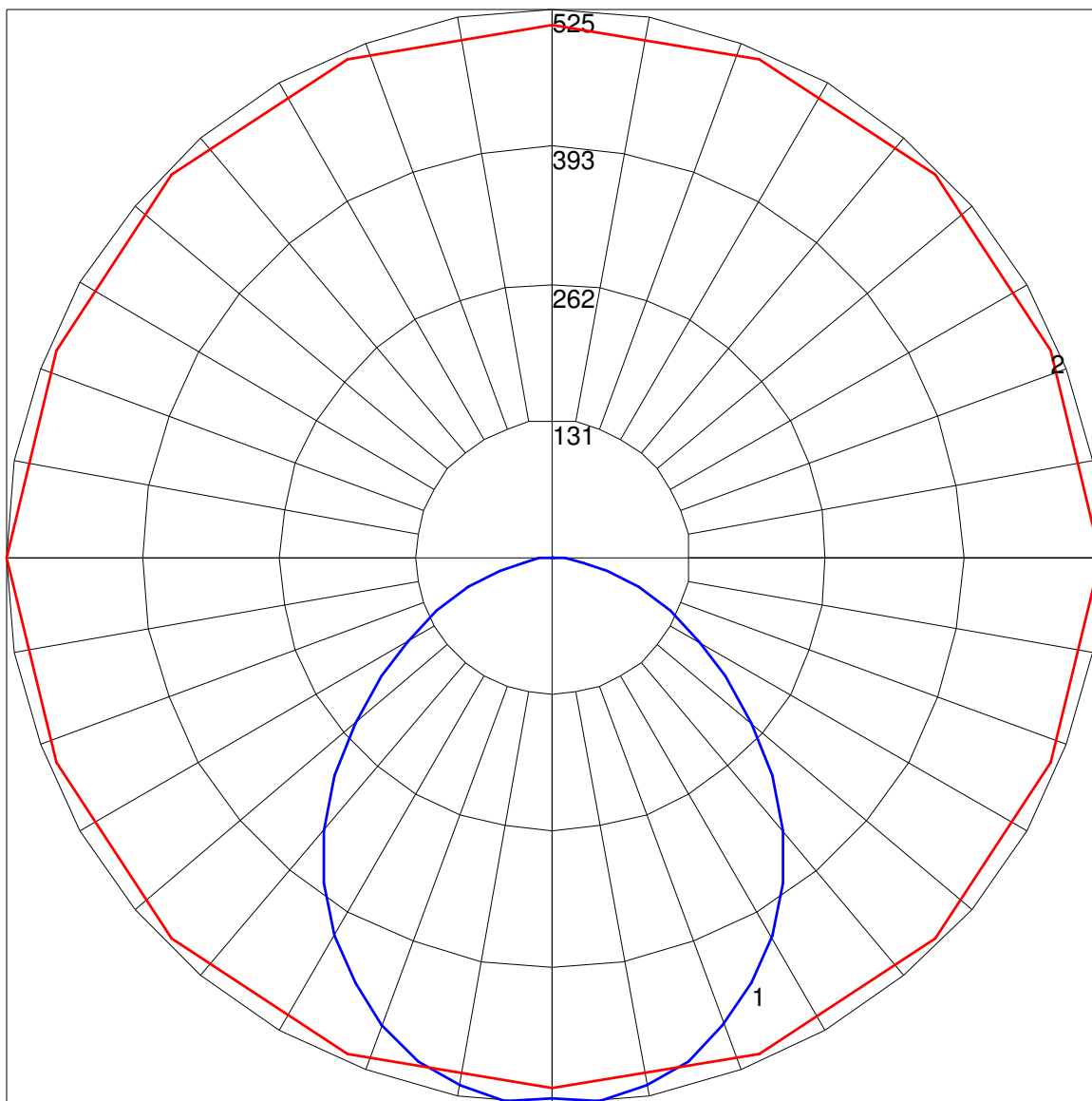
12H	4H	18.4	19.1	19.0	19.7	20.4	21.9	22.7	22.5	23.3	23.9
	6H	19.0	19.6	19.6	20.2	20.9	23.4	24.0	24.0	24.6	25.2
	8H	19.2	19.8	19.8	20.4	21.1	24.1	24.7	24.8	25.3	26.0

Maximum UGR = 26.8

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POLAR GRAPH



Maximum Candela = 524.562 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.)