



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-P72-840-(P45)-POE-ELN2-POE-PR_EM MODE 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

[ISSUEDATE] 11-16-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44.625 INCH LONG LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[MORE] POWER OVER ETHERNET READY LUMINAIRE

[LUMCAT] 75R-4-P72-840-(P45)-POE ELN2-POE-PR EM MODE ONLY

[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	1348
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	168
Total Luminaire Watts	8
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	4714	3986	3979
55	3891	3411	3503
65	3204	2865	2951
75	2165	2354	2418
85	1270	2022	1983

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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	431.747	431.747	431.747	431.747	431.747
5	436.487	430.099	430.305	429.274	424.947
10	429.274	423.916	424.947	424.328	420.413
15	416.703	412.788	415.673	416.909	412.788
20	397.743	396.713	401.659	403.720	401.247
25	375.486	376.929	383.936	388.676	386.821
30	349.932	351.993	363.946	371.159	370.746
35	318.813	322.523	339.834	349.932	351.374
40	285.633	288.312	310.157	325.408	328.911
45	246.477	253.278	278.420	298.617	303.563
50	205.879	216.801	247.508	269.559	275.741
55	166.929	181.148	215.771	238.852	247.714
60	134.367	147.557	185.270	208.352	217.625
65	103.248	117.674	156.830	177.851	185.888
70	72.336	91.708	129.833	148.175	156.006
75	44.514	69.244	104.897	122.208	129.009
80	24.730	47.812	83.670	99.745	104.073
85	10.510	32.974	66.771	80.579	83.464
90	1.443	22.669	51.727	63.886	67.802
95	0.206	15.456	41.423	50.697	54.819
100	0.000	10.098	32.149	41.423	44.720
105	0.000	7.213	24.936	33.798	36.477
110	0.000	4.946	19.166	27.615	29.882
115	0.000	4.122	15.662	23.081	24.730
120	0.000	3.091	11.953	18.960	20.608
125	0.000	1.855	8.862	15.044	16.899
130	0.000	1.237	6.389	11.747	13.396
135	0.000	0.618	4.740	9.274	10.510
140	0.000	0.618	3.297	7.213	8.243
145	0.000	0.000	2.061	4.534	5.770
150	0.000	0.000	1.443	3.297	4.122
155	0.000	0.000	1.030	1.649	2.679
160	0.000	0.000	0.412	1.237	1.443
165	0.000	0.000	0.000	0.412	0.618
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-P72-840-(P45)-POE-ELN2-POE-PR_EM MODE ONLY.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	157.88	N.A.	11.70
0-30	334.23	N.A.	24.80
0-40	544.67	N.A.	40.40
0-60	946.87	N.A.	70.20
0-80	1197.21	N.A.	88.80
0-90	1260.13	N.A.	93.50
10-90	1219.26	N.A.	90.50
20-40	386.79	N.A.	28.70
20-50	600.02	N.A.	44.50
40-70	550.48	N.A.	40.80
60-80	250.34	N.A.	18.60
70-80	102.06	N.A.	7.60
80-90	62.92	N.A.	4.70
90-110	60.04	N.A.	4.50
90-120	73.81	N.A.	5.50
90-130	81.62	N.A.	6.10
90-150	87.20	N.A.	6.50
90-180	87.79	N.A.	6.50
110-180	27.74	N.A.	2.10
0-180	1347.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	40.88
10-20	117.00
20-30	176.35
30-40	210.44
40-50	213.23
50-60	188.97
60-70	148.28
70-80	102.06
80-90	62.92
90-100	37.46
100-110	22.58
110-120	13.77
120-130	7.81
130-140	3.95
140-150	1.63
150-160	0.51
160-170	0.07
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	13.8	15.3	14.2	15.7	16.2	17.2	18.7	17.6	19.1	19.6
	3H	15.0	16.3	15.4	16.8	17.3	19.4	20.7	19.8	21.2	21.7
	4H	15.3	16.6	15.8	17.1	17.6	20.4	21.7	20.9	22.2	22.7
	6H	15.5	16.7	16.0	17.2	17.7	21.4	22.6	22.0	23.1	23.7
	8H	15.5	16.6	16.0	17.2	17.7	22.0	23.1	22.5	23.6	24.2
	12H	15.5	16.6	16.0	17.1	17.7	22.5	23.6	23.1	24.1	24.7

UGR Viewed Endwise

4H	2H	14.8	16.1	15.3	16.6	17.1	17.5	18.8	18.0	19.3	19.8
	3H	16.3	17.4	16.8	17.9	18.4	19.9	21.0	20.4	21.5	22.1
	4H	16.7	17.7	17.3	18.3	18.9	21.1	22.1	21.6	22.6	23.2
	6H	17.0	17.9	17.6	18.4	19.1	22.3	23.2	22.9	23.8	24.4
	8H	17.1	17.9	17.6	18.5	19.1	22.9	23.8	23.5	24.3	25.0
	12H	17.1	17.8	17.7	18.4	19.1	23.6	24.4	24.2	25.0	25.6

8H	4H	17.5	18.3	18.1	18.9	19.5	21.3	22.1	21.8	22.6	23.3
	6H	18.0	18.7	18.6	19.3	19.9	22.6	23.3	23.2	23.9	24.5
	8H	18.1	18.7	18.7	19.4	20.0	23.4	24.0	24.0	24.6	25.3
	12H	18.2	18.8	18.8	19.4	20.1	24.2	24.8	24.8	25.4	26.1

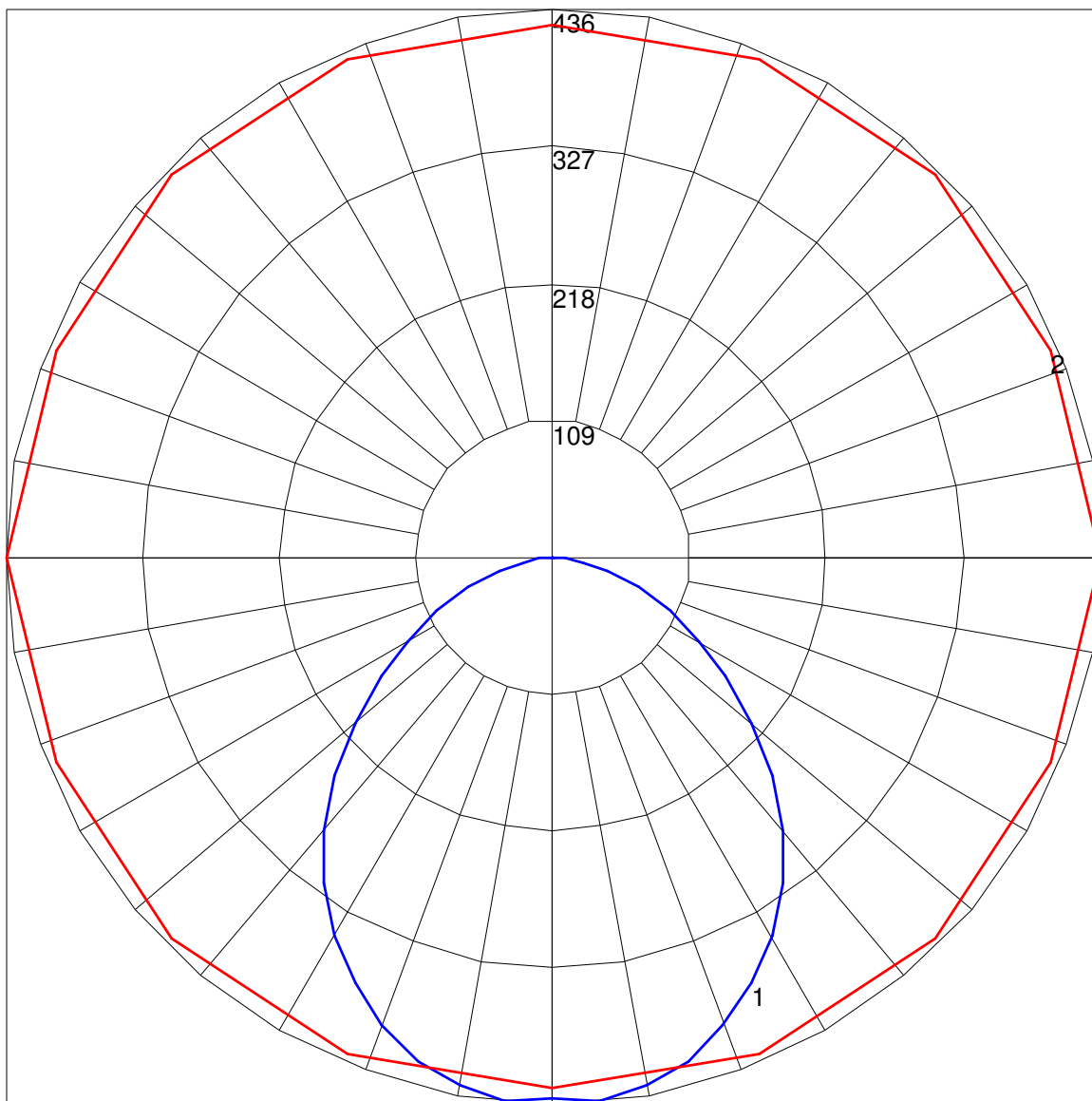
12H	4H	17.7	18.4	18.3	19.0	19.7	21.2	22.0	21.8	22.6	23.2
	6H	18.3	18.9	18.9	19.5	20.2	22.7	23.3	23.3	23.9	24.6
	8H	18.5	19.1	19.1	19.7	20.4	23.5	24.0	24.1	24.6	25.3

Maximum UGR = 26.1

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POLAR GRAPH



Maximum Candela = 436.487 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.)