

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-835-(L22)-EM10WLP-DIM-UNV (EMER 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] 07-05-2023

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-835-(L22)-EM10WLP-DIM-UNV (EMER MODE ONLY)

[LAMPCAT] HLM 80 CRI 3500K 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	1460
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	5106	4317	4310
55	4214	3695	3794
65	3471	3103	3196
75	2345	2550	2619
85	1376	2190	2147

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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	467.652	467.652	467.652	467.652	467.652
5	472.786	465.866	466.089	464.973	460.285
10	464.973	459.169	460.285	459.616	455.374
15	451.356	447.115	450.240	451.580	447.115
20	430.820	429.704	435.061	437.293	434.615
25	406.712	408.274	415.864	420.998	418.989
30	379.032	381.264	394.211	402.024	401.578
35	345.326	349.344	368.094	379.032	380.595
40	309.387	312.289	335.950	352.469	356.263
45	266.974	274.341	301.574	323.450	328.807
50	222.999	234.830	268.090	291.975	298.672
55	180.810	196.213	233.714	258.715	268.314
60	145.541	159.827	200.677	225.678	235.723
65	111.835	127.460	169.872	192.641	201.347
70	78.351	99.334	140.630	160.497	168.980
75	48.216	75.003	113.620	132.371	139.737
80	26.787	51.788	90.628	108.040	112.727
85	11.384	35.716	72.324	87.280	90.405
90	1.563	24.554	56.029	69.199	73.440
95	0.223	16.742	44.868	54.913	59.377
100	0.000	10.938	34.823	44.868	48.439
105	0.000	7.813	27.010	36.609	39.510
110	0.000	5.357	20.760	29.912	32.367
115	0.000	4.464	16.965	25.001	26.787
120	0.000	3.348	12.947	20.536	22.322
125	0.000	2.009	9.599	16.295	18.304
130	0.000	1.339	6.920	12.724	14.509
135	0.000	0.670	5.134	10.045	11.384
140	0.000	0.670	3.572	7.813	8.929
145	0.000	0.000	2.232	4.911	6.250
150	0.000	0.000	1.563	3.572	4.464
155	0.000	0.000	1.116	1.786	2.902
160	0.000	0.000	0.446	1.339	1.563
165	0.000	0.000	0.000	0.446	0.670
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-L30-835-(L22)-EM10WLP-DIM-UNV (EMER MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	171.01	N.A.	11.70
0-30	362.02	N.A.	24.80
0-40	589.97	N.A.	40.40
0-60	1025.62	N.A.	70.20
0-80	1296.77	N.A.	88.80
0-90	1364.93	N.A.	93.50
10-90	1320.65	N.A.	90.50
20-40	418.96	N.A.	28.70
20-50	649.92	N.A.	44.50
40-70	596.26	N.A.	40.80
60-80	271.16	N.A.	18.60
70-80	110.54	N.A.	7.60
80-90	68.15	N.A.	4.70
90-110	65.04	N.A.	4.50
90-120	79.95	N.A.	5.50
90-130	88.41	N.A.	6.10
90-150	94.45	N.A.	6.50
90-180	95.09	N.A.	6.50
110-180	30.05	N.A.	2.10
0-180	1460.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	44.27
10-20	126.73
20-30	191.02
30-40	227.94
40-50	230.96
50-60	204.69
60-70	160.61
70-80	110.54
80-90	68.15
90-100	40.58
100-110	24.46
110-120	14.91
120-130	8.46
130-140	4.28
140-150	1.77
150-160	0.55
160-170	0.08
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	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

X=2H	Y=2H	14.1	15.6	14.5	16.0	16.5	17.5	18.9	17.9	19.4	19.9
	3H	15.3	16.6	15.7	17.1	17.6	19.7	21.0	20.1	21.5	22.0
	4H	15.6	16.9	16.1	17.4	17.9	20.7	22.0	21.2	22.5	23.0
	6H	15.8	17.0	16.3	17.5	18.0	21.7	22.9	22.2	23.4	24.0
	8H	15.8	16.9	16.3	17.5	18.0	22.3	23.4	22.8	23.9	24.5
	12H	15.8	16.9	16.3	17.4	18.0	22.8	23.9	23.4	24.4	25.0

UGR Viewed Endwise

4H	2H	15.1	16.4	15.6	16.9	17.4	17.8	19.1	18.3	19.5	20.1
	3H	16.6	17.7	17.1	18.2	18.7	20.2	21.3	20.7	21.8	22.4
	4H	17.0	18.0	17.6	18.6	19.2	21.4	22.4	21.9	22.9	23.5
	6H	17.3	18.2	17.9	18.7	19.4	22.6	23.5	23.2	24.1	24.7
	8H	17.4	18.2	17.9	18.8	19.4	23.2	24.1	23.8	24.6	25.2
	12H	17.4	18.1	18.0	18.7	19.4	23.9	24.7	24.5	25.3	25.9

8H	4H	17.8	18.6	18.4	19.2	19.8	21.5	22.4	22.1	22.9	23.6
	6H	18.3	19.0	18.9	19.6	20.2	22.9	23.6	23.5	24.2	24.8
	8H	18.4	19.0	19.0	19.7	20.3	23.7	24.3	24.3	24.9	25.6
	12H	18.5	19.1	19.1	19.7	20.4	24.5	25.1	25.1	25.7	26.4

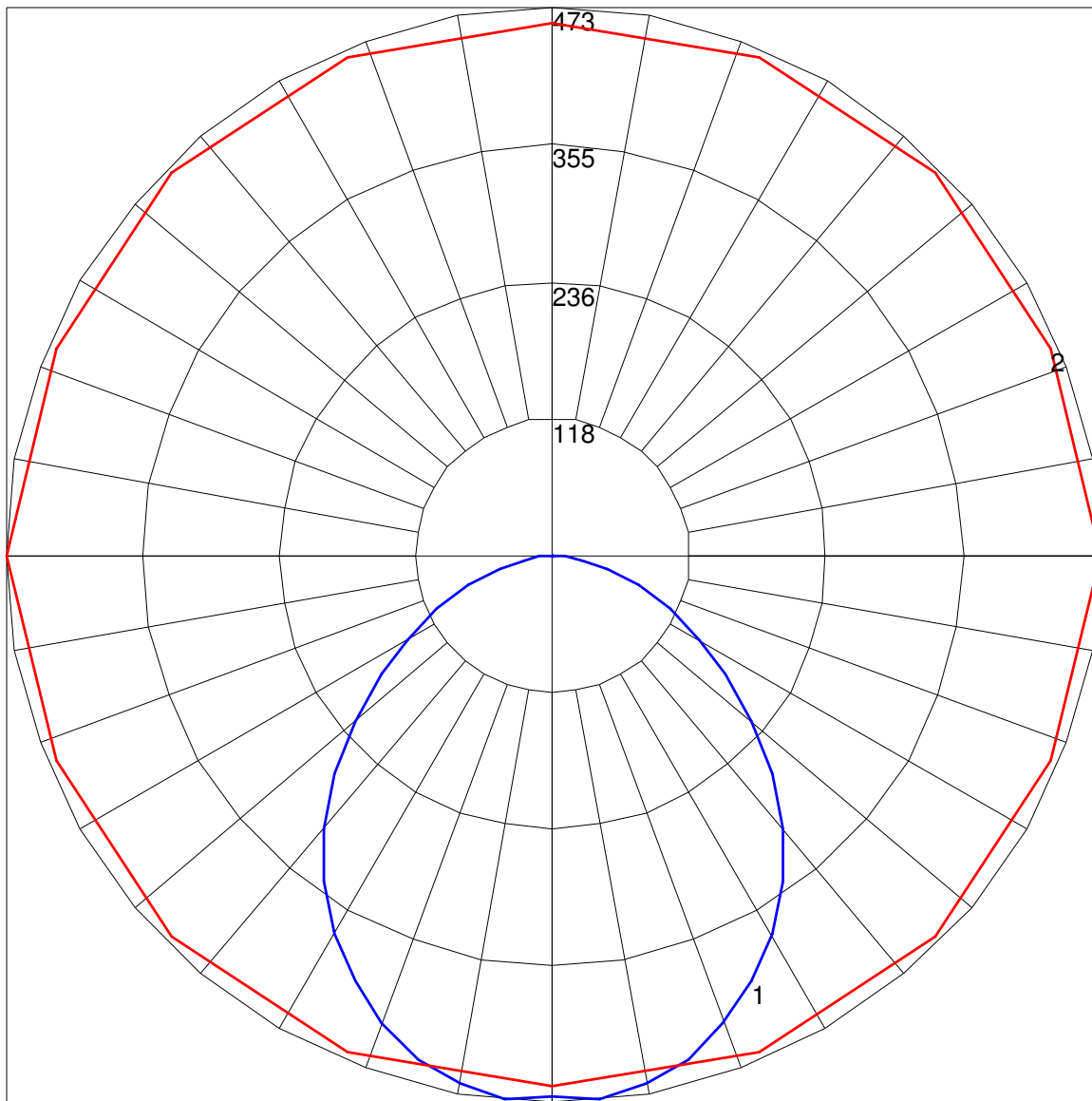
12H	4H	18.0	18.7	18.6	19.3	20.0	21.5	22.3	22.1	22.9	23.5
	6H	18.6	19.2	19.2	19.8	20.5	23.0	23.6	23.6	24.2	24.8
	8H	18.8	19.4	19.4	20.0	20.7	23.7	24.3	24.4	24.9	25.6

Maximum UGR = 26.4

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POLAR GRAPH



Maximum Candela = 472.786 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.)