

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-830-EM10W-DRV-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

[ISSUE DATE] 09-08-2023

[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-L65-830-EM10W-DRV-UNV

[SEARCH\_SOURCE TYPE] 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	1437
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
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	5024	4248	4240
55	4146	3635	3733
65	3415	3053	3145
75	2307	2509	2577
85	1354	2155	2113

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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	460.124	460.124	460.124	460.124	460.124
5	465.176	458.367	458.587	457.489	452.876
10	457.489	451.778	452.876	452.218	448.045
15	444.091	439.918	442.993	444.311	439.918
20	423.885	422.787	428.058	430.255	427.619
25	400.165	401.703	409.170	414.222	412.245
30	372.931	375.128	387.866	395.553	395.114
35	339.767	343.720	362.169	372.931	374.469
40	304.407	307.262	330.543	346.795	350.529
45	262.677	269.925	296.720	318.243	323.515
50	219.410	231.050	263.775	287.276	293.865
55	177.900	193.055	229.952	254.551	263.995
60	143.199	157.255	197.447	222.046	231.929
65	110.034	125.409	167.138	189.540	198.106
70	77.090	97.735	138.367	157.914	166.260
75	47.440	73.796	111.792	130.240	137.488
80	26.356	50.954	89.170	106.301	110.913
85	11.201	35.141	71.160	85.875	88.950
90	1.537	24.159	55.127	68.085	72.258
95	0.220	16.472	44.146	54.029	58.422
100	0.000	10.762	34.262	44.146	47.660
105	0.000	7.687	26.575	36.019	38.874
110	0.000	5.271	20.426	29.430	31.846
115	0.000	4.393	16.692	24.599	26.356
120	0.000	3.294	12.739	20.206	21.963
125	0.000	1.977	9.444	16.033	18.010
130	0.000	1.318	6.809	12.519	14.276
135	0.000	0.659	5.051	9.883	11.201
140	0.000	0.659	3.514	7.687	8.785
145	0.000	0.000	2.196	4.832	6.150
150	0.000	0.000	1.537	3.514	4.393
155	0.000	0.000	1.098	1.757	2.855
160	0.000	0.000	0.439	1.318	1.537
165	0.000	0.000	0.000	0.439	0.659
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-L65-830-EM10W-DRV-UNV (EMER MODE)\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	168.26	N.A.	11.70
0-30	356.20	N.A.	24.80
0-40	580.47	N.A.	40.40
0-60	1009.11	N.A.	70.20
0-80	1275.9	N.A.	88.80
0-90	1342.96	N.A.	93.50
10-90	1299.39	N.A.	90.50
20-40	412.21	N.A.	28.70
20-50	639.46	N.A.	44.50
40-70	586.67	N.A.	40.80
60-80	266.79	N.A.	18.60
70-80	108.77	N.A.	7.60
80-90	67.05	N.A.	4.70
90-110	63.99	N.A.	4.50
90-120	78.66	N.A.	5.50
90-130	86.99	N.A.	6.10
90-150	92.93	N.A.	6.50
90-180	93.56	N.A.	6.50
110-180	29.57	N.A.	2.10
0-180	1436.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	43.56
10-20	124.69
20-30	187.94
30-40	224.27
40-50	227.24
50-60	201.39
60-70	158.03
70-80	108.77
80-90	67.05
90-100	39.92
100-110	24.07
110-120	14.67
120-130	8.33
130-140	4.21
140-150	1.74
150-160	0.54
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	101	101	101	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	71	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	14.1	15.6	14.5	16.0	16.5	17.5	19.0	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	22.3	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	19.6	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	21.6	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

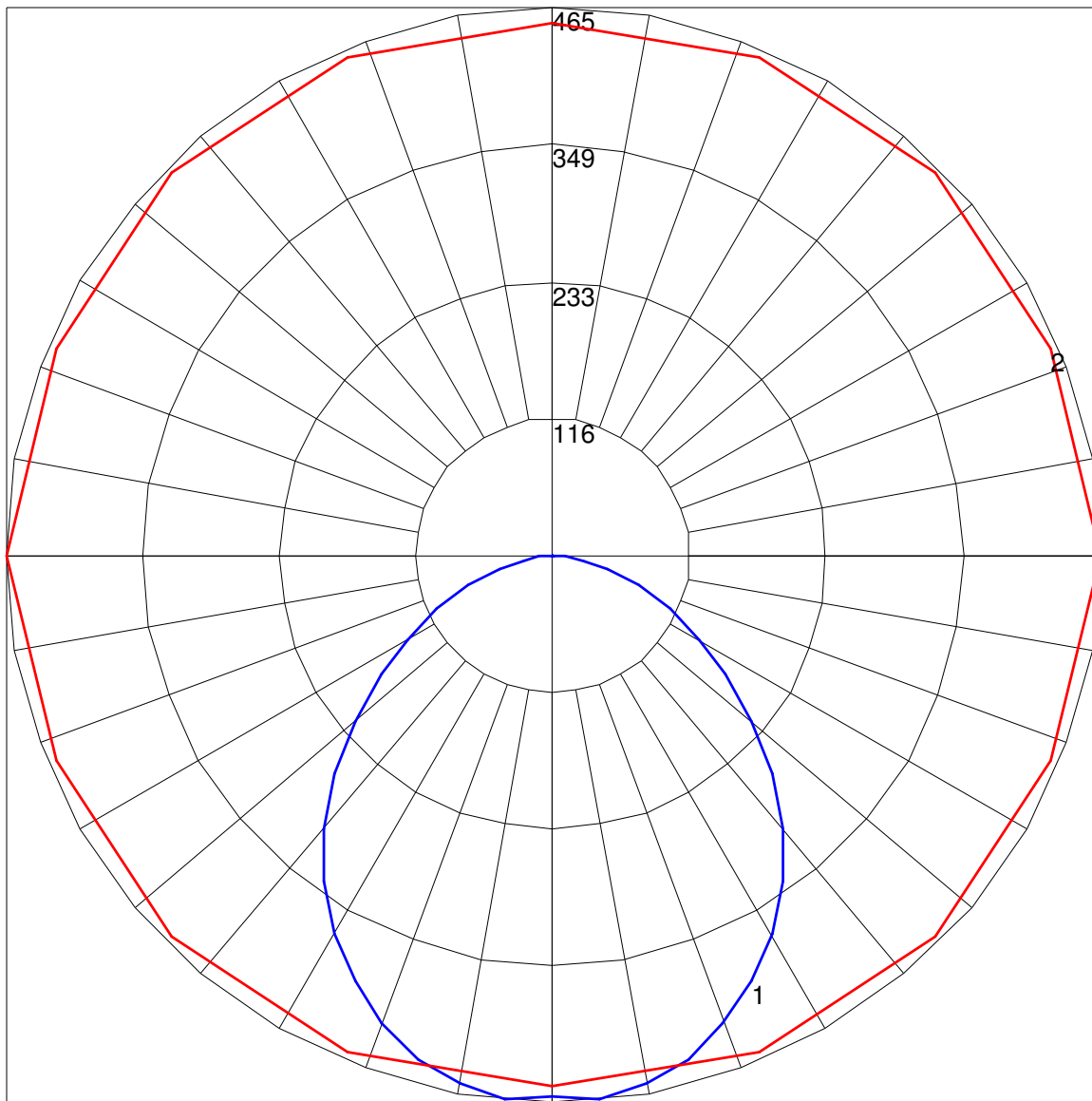
12H	4H	18.0	18.7	18.6	19.3	20.0	21.5	22.3	22.1	22.9	23.5
	6H	18.6	19.2	19.2	19.8	20.5	23.0	23.6	23.6	24.2	24.9
	8H	18.8	19.4	19.4	20.0	20.7	23.7	24.3	24.4	24.9	25.6

Maximum UGR = 26.4

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## POLAR GRAPH



Maximum Candela = 465.176 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.)