

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L85-840-(L68)-EM10WLP-DRV-UNV_.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] 6-12-2023

[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-L85-840-(L68)-EM10WLP-DRV-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	1538
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	154
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	5380	4549	4541
55	4440	3893	3997
65	3657	3270	3368
75	2471	2687	2759
85	1450	2308	2263

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	492.730	492.730	492.730	492.730	492.730
5	498.140	490.849	491.084	489.908	484.969
10	489.908	483.793	484.969	484.263	479.795
15	475.561	471.092	474.385	475.796	471.092
20	453.923	452.747	458.392	460.744	457.922
25	428.522	430.169	438.165	443.575	441.458
30	399.358	401.710	415.352	423.583	423.113
35	363.844	368.078	387.834	399.358	401.005
40	325.978	329.036	353.966	371.370	375.369
45	281.291	289.053	317.746	340.795	346.440
50	234.958	247.423	282.467	307.633	314.689
55	190.507	206.735	246.247	272.589	282.702
60	153.346	168.398	211.439	237.781	248.364
65	117.832	134.295	178.982	202.972	212.144
70	82.553	104.661	148.172	169.104	178.041
75	50.802	79.025	119.713	139.470	147.231
80	28.223	54.565	95.489	113.834	118.773
85	11.995	37.631	76.203	91.961	95.253
90	1.646	25.871	59.034	72.910	77.379
95	0.235	17.640	47.274	57.858	62.561
100	0.000	11.524	36.690	47.274	51.037
105	0.000	8.232	28.458	38.572	41.629
110	0.000	5.645	21.873	31.516	34.103
115	0.000	4.704	17.875	26.342	28.223
120	0.000	3.528	13.641	21.638	23.519
125	0.000	2.117	10.113	17.169	19.286
130	0.000	1.411	7.291	13.406	15.288
135	0.000	0.706	5.409	10.584	11.995
140	0.000	0.706	3.763	8.232	9.408
145	0.000	0.000	2.352	5.174	6.585
150	0.000	0.000	1.646	3.763	4.704
155	0.000	0.000	1.176	1.882	3.058
160	0.000	0.000	0.470	1.411	1.646
165	0.000	0.000	0.000	0.470	0.706
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

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Zone	Lumens	%Lamp	%Fixt
0-20	180.18	N.A.	11.70
0-30	381.44	N.A.	24.80
0-40	621.60	N.A.	40.40
0-60	1080.62	N.A.	70.20
0-80	1366.32	N.A.	88.80
0-90	1438.12	N.A.	93.50
10-90	1391.47	N.A.	90.50
20-40	441.43	N.A.	28.70
20-50	684.77	N.A.	44.50
40-70	628.24	N.A.	40.80
60-80	285.70	N.A.	18.60
70-80	116.47	N.A.	7.60
80-90	71.81	N.A.	4.70
90-110	68.53	N.A.	4.50
90-120	84.24	N.A.	5.50
90-130	93.15	N.A.	6.10
90-150	99.52	N.A.	6.50
90-180	100.19	N.A.	6.50
110-180	31.66	N.A.	2.10
0-180	1538.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.65
10-20	133.53
20-30	201.26
30-40	240.17
40-50	243.35
50-60	215.67
60-70	169.23
70-80	116.47
80-90	71.81
90-100	42.75
100-110	25.77
110-120	15.71
120-130	8.92
130-140	4.51
140-150	1.86
150-160	0.58
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
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	63
3	88	77	68	61	85	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	49	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

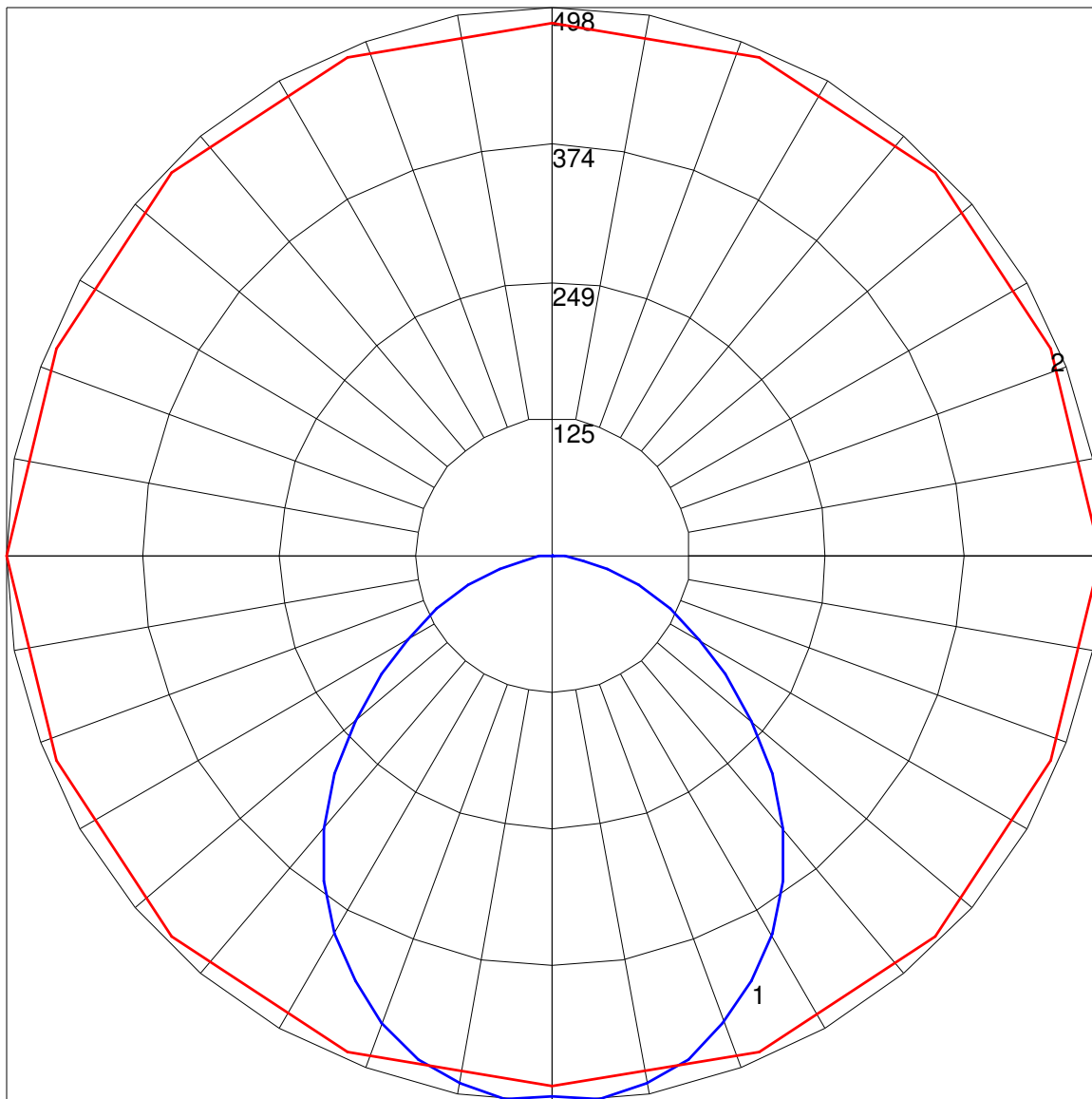
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	14.3	15.8	14.7	16.2	16.7	UGR Viewed Endwise			
	3H	15.5	16.8	15.9	17.3	17.8	17.7	19.2	18.1	19.6
	4H	15.8	17.1	16.3	17.6	18.1	19.9	21.2	20.3	21.7
	6H	16.0	17.2	16.5	17.7	18.2	20.9	22.2	21.4	22.7
	8H	16.0	17.1	16.5	17.7	18.2	21.9	23.1	22.5	23.6
	12H	16.0	17.1	16.5	17.6	18.2	22.5	23.6	23.0	24.1
							23.0	24.1	23.6	24.6
4H	2H	15.3	16.6	15.8	17.1	17.6	23.4	24.3	24.0	24.8
	3H	16.8	17.9	17.3	18.4	18.9	24.1	24.9	24.7	25.5
	4H	17.2	18.2	17.8	18.8	19.4	24.1	24.9	24.7	25.5
	6H	17.5	18.4	18.1	18.9	19.6	24.1	24.9	24.7	25.5
	8H	17.6	18.4	18.1	19.0	19.6	24.1	24.9	24.7	25.5
	12H	17.6	18.3	18.2	18.9	19.6	24.1	24.9	24.7	25.5
8H	4H	18.0	18.8	18.6	19.4	20.0	24.1	24.9	24.7	25.5
	6H	18.5	19.2	19.1	19.8	20.4	24.1	24.9	24.7	25.5
	8H	18.6	19.2	19.2	19.9	20.5	24.1	24.9	24.7	25.5
	12H	18.7	19.3	19.3	19.9	20.6	24.1	24.9	24.7	25.5
12H	4H	18.2	18.9	18.8	19.5	20.2	24.1	24.9	24.7	25.5
	6H	18.8	19.4	19.4	20.0	20.7	24.1	24.9	24.7	25.5
	8H	19.0	19.6	19.6	20.2	20.9	24.1	24.9	24.7	25.5

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 498.14 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.)