

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-940-EMBSL10LST-DIM-UNV-(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] 6-7-2023

[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

[MORE] ADVANCE #XI054C150V054BST1 @ 1100mA

[LUMCAT] 75R-4-L30-940-EMBSL10LST-DIM-UNV (EM MODE ONLY)

[LAMPCAT] HLM 90 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	1402
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	20.68
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	4904	4146	4139
55	4047	3548	3644
65	3333	2981	3070
75	2252	2449	2515
85	1322	2104	2062

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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	449.139	449.139	449.139	449.139	449.139
5	454.070	447.424	447.638	446.566	442.064
10	446.566	440.992	442.064	441.421	437.348
15	433.489	429.416	432.417	433.703	429.416
20	413.765	412.693	417.839	419.983	417.410
25	390.612	392.112	399.401	404.332	402.403
30	364.028	366.172	378.606	386.110	385.681
35	331.655	335.514	353.523	364.028	365.528
40	297.139	299.926	322.651	338.516	342.160
45	256.406	263.481	289.636	310.646	315.791
50	214.172	225.534	257.478	280.417	286.849
55	173.653	188.445	224.462	248.474	257.692
60	139.780	153.501	192.733	216.744	226.392
65	107.407	122.415	163.148	185.015	193.376
70	75.250	95.402	135.063	154.144	162.290
75	46.307	72.034	109.123	127.131	134.206
80	25.726	49.738	87.041	103.763	108.265
85	10.934	34.302	69.461	83.825	86.826
90	1.501	23.582	53.811	66.460	70.533
95	0.214	16.079	43.092	52.739	57.027
100	0.000	10.505	33.444	43.092	46.522
105	0.000	7.504	25.941	35.159	37.946
110	0.000	5.145	19.938	28.728	31.086
115	0.000	4.288	16.293	24.011	25.726
120	0.000	3.216	12.434	19.724	21.439
125	0.000	1.929	9.219	15.650	17.580
130	0.000	1.286	6.646	12.220	13.935
135	0.000	0.643	4.931	9.647	10.934
140	0.000	0.643	3.430	7.504	8.575
145	0.000	0.000	2.144	4.716	6.003
150	0.000	0.000	1.501	3.430	4.288
155	0.000	0.000	1.072	1.715	2.787
160	0.000	0.000	0.429	1.286	1.501
165	0.000	0.000	0.000	0.429	0.643
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-L30-940-EMBSL10LST-DIM-UNV-(EM MODE ONLY).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	164.24	N.A.	11.70
0-30	347.69	N.A.	24.80
0-40	566.61	N.A.	40.40
0-60	985.02	N.A.	70.20
0-80	1245.44	N.A.	88.80
0-90	1310.89	N.A.	93.50
10-90	1268.37	N.A.	90.50
20-40	402.37	N.A.	28.70
20-50	624.19	N.A.	44.50
40-70	572.66	N.A.	40.80
60-80	260.42	N.A.	18.60
70-80	106.17	N.A.	7.60
80-90	65.45	N.A.	4.70
90-110	62.46	N.A.	4.50
90-120	76.78	N.A.	5.50
90-130	84.91	N.A.	6.10
90-150	90.72	N.A.	6.50
90-180	91.32	N.A.	6.50
110-180	28.86	N.A.	2.10
0-180	1402.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	42.52
10-20	121.72
20-30	183.45
30-40	218.92
40-50	221.82
50-60	196.59
60-70	154.26
70-80	106.17
80-90	65.45
90-100	38.97
100-110	23.49
110-120	14.32
120-130	8.13
130-140	4.11
140-150	1.70
150-160	0.53
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	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	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

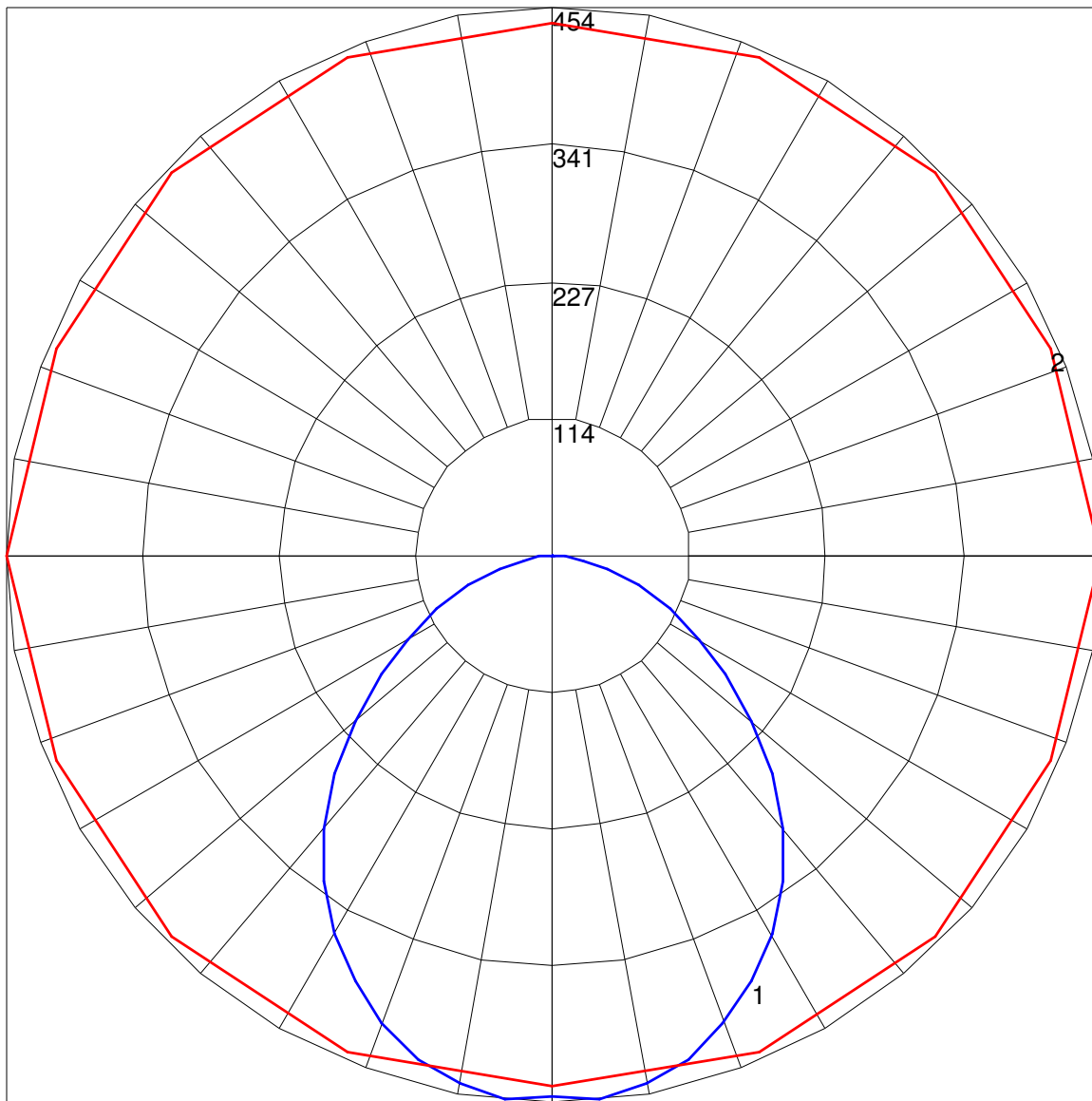
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	14.0	15.5	14.4	15.9	16.4	17.4	18.9	17.8	19.3	19.8
	3H	15.2	16.5	15.6	17.0	17.5	19.6	20.9	20.0	21.4	21.9
	4H	15.5	16.8	16.0	17.3	17.8	20.6	21.9	21.1	22.4	22.9
	6H	15.7	16.9	16.2	17.4	17.9	21.6	22.8	22.2	23.3	23.9
	8H	15.7	16.8	16.2	17.4	17.9	22.2	23.3	22.7	23.8	24.4
	12H	15.7	16.8	16.2	17.3	17.9	22.7	23.8	23.3	24.3	24.9
4H	2H	15.0	16.3	15.5	16.8	17.3	17.7	19.0	18.2	19.5	20.0
	3H	16.5	17.6	17.0	18.1	18.6	20.1	21.2	20.6	21.7	22.3
	4H	16.9	17.9	17.5	18.5	19.1	21.3	22.3	21.8	22.8	23.4
	6H	17.2	18.1	17.8	18.6	19.3	22.5	23.4	23.1	24.0	24.6
	8H	17.3	18.1	17.8	18.7	19.3	23.1	24.0	23.7	24.5	25.1
	12H	17.3	18.0	17.9	18.6	19.3	23.8	24.6	24.4	25.2	25.8
8H	4H	17.7	18.5	18.3	19.1	19.7	21.5	22.3	22.0	22.8	23.5
	6H	18.2	18.9	18.8	19.5	20.1	22.8	23.5	23.4	24.1	24.7
	8H	18.3	18.9	18.9	19.6	20.2	23.6	24.2	24.2	24.8	25.5
	12H	18.4	19.0	19.0	19.6	20.3	24.4	25.0	25.0	25.6	26.3
12H	4H	17.9	18.6	18.5	19.2	19.9	21.4	22.2	22.0	22.8	23.4
	6H	18.5	19.1	19.1	19.7	20.4	22.9	23.5	23.5	24.1	24.7
	8H	18.7	19.3	19.3	19.9	20.6	23.6	24.2	24.3	24.8	25.5

Maximum UGR = 26.3

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POLAR GRAPH



Maximum Candela = 454.07 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.)