



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-840-(L47)-DIM-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

[ISSUEDATE] 06-08-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L50-840-(L47)-DIM-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	4873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	31.9
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	17041	14409	14383
55	14064	12331	12662
65	11583	10357	10667
75	7827	8510	8740
85	4593	7310	7167

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-840-(L47)-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1560.761	1560.761	1560.761	1560.761	1560.761
5	1577.895	1554.801	1555.546	1551.821	1536.176
10	1551.821	1532.451	1536.176	1533.941	1519.786
15	1506.376	1492.221	1502.651	1507.121	1492.221
20	1437.837	1434.112	1451.992	1459.441	1450.502
25	1357.377	1362.592	1387.922	1405.057	1398.352
30	1264.998	1272.448	1315.658	1341.733	1340.243
35	1152.504	1165.914	1228.494	1264.998	1270.213
40	1032.560	1042.245	1121.215	1176.344	1189.009
45	891.012	915.597	1006.486	1079.495	1097.375
50	744.248	783.733	894.737	974.451	996.801
55	603.444	654.849	780.008	863.447	895.482
60	485.735	533.415	669.749	753.188	786.713
65	373.242	425.391	566.940	642.929	671.984
70	261.493	331.522	469.346	535.650	563.960
75	160.919	250.318	379.201	441.781	466.366
80	89.399	172.838	302.467	360.577	376.222
85	37.995	119.199	241.378	291.292	301.722
90	5.215	81.949	186.993	230.948	245.103
95	0.745	55.874	149.744	183.268	198.168
100	0.000	36.505	116.219	149.744	161.664
105	0.000	26.075	90.144	122.179	131.864
110	0.000	17.880	69.284	99.829	108.024
115	0.000	14.900	56.619	83.439	89.399
120	0.000	11.175	43.210	68.539	74.499
125	0.000	6.705	32.035	54.384	61.089
130	0.000	4.470	23.095	42.465	48.425
135	0.000	2.235	17.135	33.525	37.995
140	0.000	2.235	11.920	26.075	29.800
145	0.000	0.000	7.450	16.390	20.860
150	0.000	0.000	5.215	11.920	14.900
155	0.000	0.000	3.725	5.960	9.685
160	0.000	0.000	1.490	4.470	5.215
165	0.000	0.000	0.000	1.490	2.235
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-L50-840-(L47)-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	570.73	N.A.	11.70
0-30	1208.23	N.A.	24.80
0-40	1968.98	N.A.	40.40
0-60	3422.93	N.A.	70.20
0-80	4327.91	N.A.	88.80
0-90	4555.36	N.A.	93.50
10-90	4407.6	N.A.	90.50
20-40	1398.25	N.A.	28.70
20-50	2169.07	N.A.	44.50
40-70	1990.00	N.A.	40.80
60-80	904.98	N.A.	18.60
70-80	368.94	N.A.	7.60
80-90	227.45	N.A.	4.70
90-110	217.06	N.A.	4.50
90-120	266.82	N.A.	5.50
90-130	295.07	N.A.	6.10
90-150	315.24	N.A.	6.50
90-180	317.35	N.A.	6.50
110-180	100.29	N.A.	2.10
0-180	4872.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	147.76
10-20	422.97
20-30	637.51
30-40	760.74
40-50	770.82
50-60	683.14
60-70	536.04
70-80	368.94
80-90	227.45
90-100	135.43
100-110	81.63
110-120	49.76
120-130	28.25
130-140	14.27
140-150	5.90
150-160	1.84
160-170	0.27
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-840-(L47)-DIM-UNV_.IES

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-4-L50-840-(L47)-DIM-UNV_.IES

UGR TABLE - CORRECTED

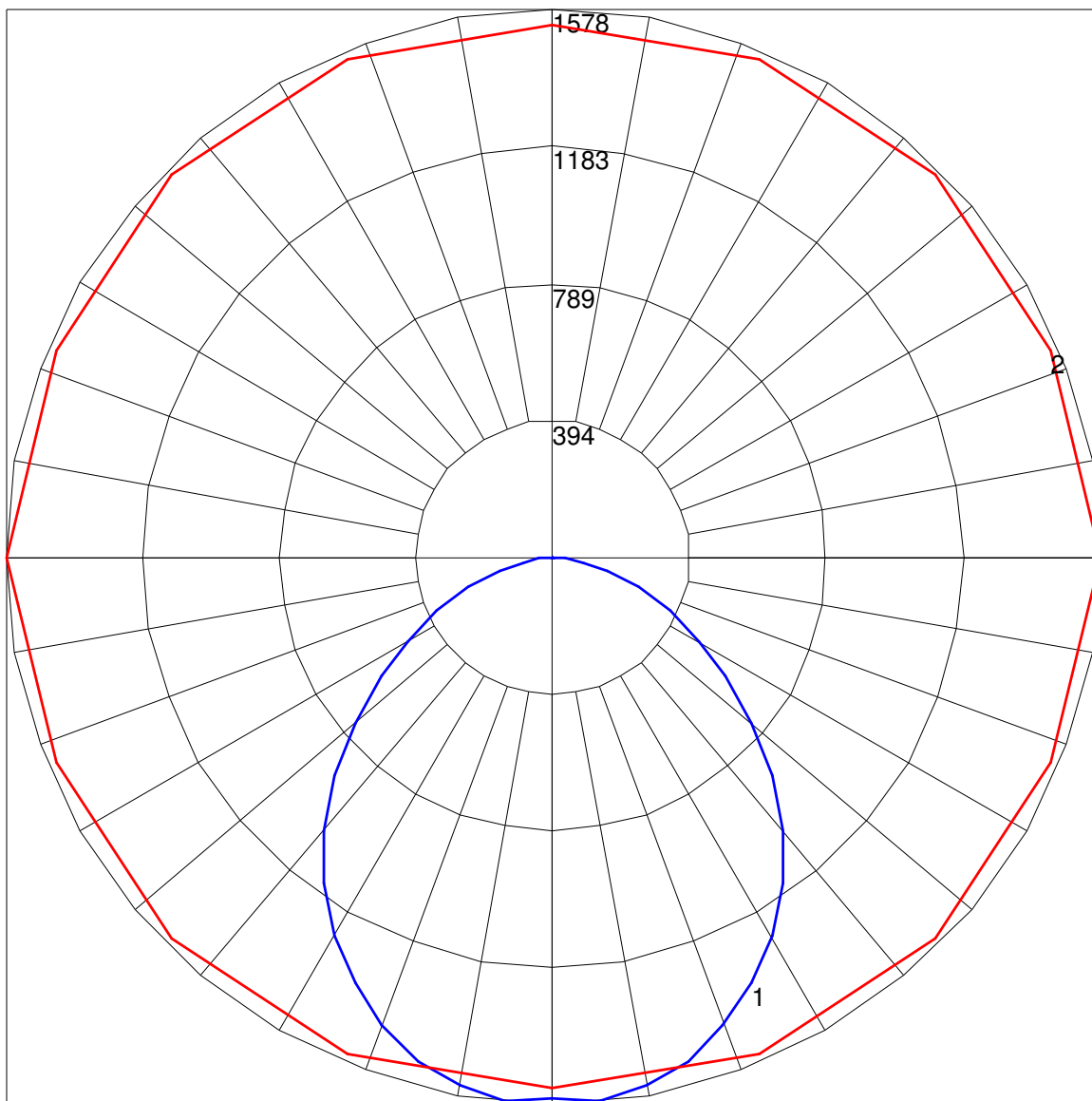
Reflectances

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	18.3	19.8	18.7	20.2	20.7	21.7	23.2	22.1	23.6	24.1
	3H	19.5	20.8	19.9	21.3	21.8	23.9	25.2	24.3	25.7	26.2
	4H	19.8	21.1	20.3	21.6	22.1	24.9	26.2	25.4	26.7	27.2
	6H	20.0	21.2	20.5	21.7	22.2	25.9	27.1	26.5	27.6	28.2
	8H	20.0	21.1	20.5	21.7	22.2	26.5	27.6	27.0	28.1	28.7
	12H	20.0	21.1	20.5	21.6	22.2	27.0	28.1	27.6	28.6	29.2
4H	2H	19.3	20.6	19.8	21.1	21.6	22.0	23.3	22.5	23.8	24.3
	3H	20.8	21.9	21.3	22.4	22.9	24.4	25.5	24.9	26.0	26.6
	4H	21.2	22.2	21.8	22.8	23.4	25.6	26.6	26.1	27.1	27.7
	6H	21.5	22.4	22.1	22.9	23.6	26.8	27.7	27.4	28.3	28.9
	8H	21.6	22.4	22.1	23.0	23.6	27.4	28.3	28.0	28.8	29.4
	12H	21.6	22.3	22.2	22.9	23.6	28.1	28.9	28.7	29.5	30.1
8H	4H	22.0	22.8	22.6	23.4	24.0	25.8	26.6	26.3	27.1	27.8
	6H	22.5	23.2	23.1	23.8	24.4	27.1	27.8	27.7	28.4	29.0
	8H	22.6	23.2	23.2	23.9	24.5	27.9	28.5	28.5	29.1	29.8
	12H	22.7	23.3	23.3	23.9	24.6	28.7	29.3	29.3	29.9	30.6
12H	4H	22.2	22.9	22.8	23.5	24.2	25.7	26.5	26.3	27.1	27.7
	6H	22.8	23.4	23.4	24.0	24.7	27.2	27.8	27.8	28.4	29.1
	8H	23.0	23.6	23.6	24.2	24.9	27.9	28.5	28.6	29.1	29.8

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 1577.895 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.)