



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L50-830-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

[ISSUE DATE] 9-JUL-2021

[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-L50-830--DIM-UNV

[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	5273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	33.8
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	18440	15591	15564
55	15219	13343	13702
65	12534	11207	11543
75	8469	9209	9458
85	4969	7910	7755

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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	1688.875	1688.875	1688.875	1688.875	1688.875
5	1707.417	1682.426	1683.232	1679.202	1662.273
10	1679.202	1658.242	1662.273	1659.854	1644.537
15	1630.027	1614.710	1625.996	1630.833	1614.710
20	1555.861	1551.831	1571.178	1579.240	1569.566
25	1468.798	1474.441	1501.850	1520.391	1513.136
30	1368.836	1376.897	1423.653	1451.869	1450.256
35	1247.108	1261.618	1329.334	1368.836	1374.479
40	1117.318	1127.798	1213.249	1272.904	1286.609
45	964.150	990.753	1089.103	1168.105	1187.453
50	805.340	848.065	968.181	1054.439	1078.623
55	652.978	708.602	844.035	934.323	968.987
60	525.607	577.200	724.725	815.013	851.290
65	403.879	460.309	613.477	695.704	727.144
70	282.957	358.735	507.872	579.619	610.252
75	174.127	270.865	410.328	478.044	504.647
80	96.737	187.026	327.295	390.175	407.104
85	41.113	128.983	261.191	315.203	326.489
90	5.643	88.676	202.343	249.905	265.222
95	0.806	60.461	162.035	198.312	214.435
100	0.000	39.501	125.759	162.035	174.934
105	0.000	28.215	97.544	132.208	142.688
110	0.000	19.347	74.972	108.024	116.891
115	0.000	16.123	61.267	90.288	96.737
120	0.000	12.092	46.756	74.165	80.615
125	0.000	7.255	34.664	58.849	66.104
130	0.000	4.837	24.991	45.950	52.399
135	0.000	2.418	18.541	36.277	41.113
140	0.000	2.418	12.898	28.215	32.246
145	0.000	0.000	8.061	17.735	22.572
150	0.000	0.000	5.643	12.898	16.123
155	0.000	0.000	4.031	6.449	10.480
160	0.000	0.000	1.612	4.837	5.643
165	0.000	0.000	0.000	1.612	2.418
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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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	617.58	N.A.	11.70
0-30	1307.41	N.A.	24.80
0-40	2130.6	N.A.	40.40
0-60	3703.9	N.A.	70.20
0-80	4683.16	N.A.	88.80
0-90	4929.29	N.A.	93.50
10-90	4769.4	N.A.	90.50
20-40	1513.02	N.A.	28.70
20-50	2347.12	N.A.	44.50
40-70	2153.34	N.A.	40.80
60-80	979.26	N.A.	18.60
70-80	399.22	N.A.	7.60
80-90	246.12	N.A.	4.70
90-110	234.88	N.A.	4.50
90-120	288.72	N.A.	5.50
90-130	319.29	N.A.	6.10
90-150	341.11	N.A.	6.50
90-180	343.40	N.A.	6.50
110-180	108.52	N.A.	2.10
0-180	5272.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	159.89
10-20	457.68
20-30	689.84
30-40	823.19
40-50	834.09
50-60	739.21
60-70	580.04
70-80	399.22
80-90	246.12
90-100	146.54
100-110	88.33
110-120	53.85
120-130	30.57
130-140	15.44
140-150	6.38
150-160	1.99
160-170	0.29
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	332	332	332	332	322	322	322	322	304	304	304	287	287	287	271	271	271	264
1	300	285	271	259	290	276	264	253	261	251	242	247	239	231	234	227	221	214
2	272	247	227	210	262	240	221	206	227	211	198	215	202	191	204	193	184	177
3	247	217	193	174	239	211	189	171	200	181	166	189	174	160	180	167	155	148
4	226	192	166	147	218	187	163	145	177	157	141	168	151	137	160	145	133	126
5	208	171	145	126	201	167	143	125	159	138	122	151	133	119	144	128	116	109
6	192	154	129	110	186	150	127	109	143	122	107	137	118	104	131	115	102	96
7	178	140	115	97	172	137	113	96	131	110	94	125	106	92	120	103	91	85
8	166	128	103	87	160	125	102	86	119	99	84	115	96	83	110	93	81	75
9	155	117	94	78	150	115	92	77	110	90	76	106	88	75	102	85	73	68
10	145	108	86	71	141	106	84	70	102	82	69	98	80	68	94	78	67	62

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UGR TABLE - CORRECTED

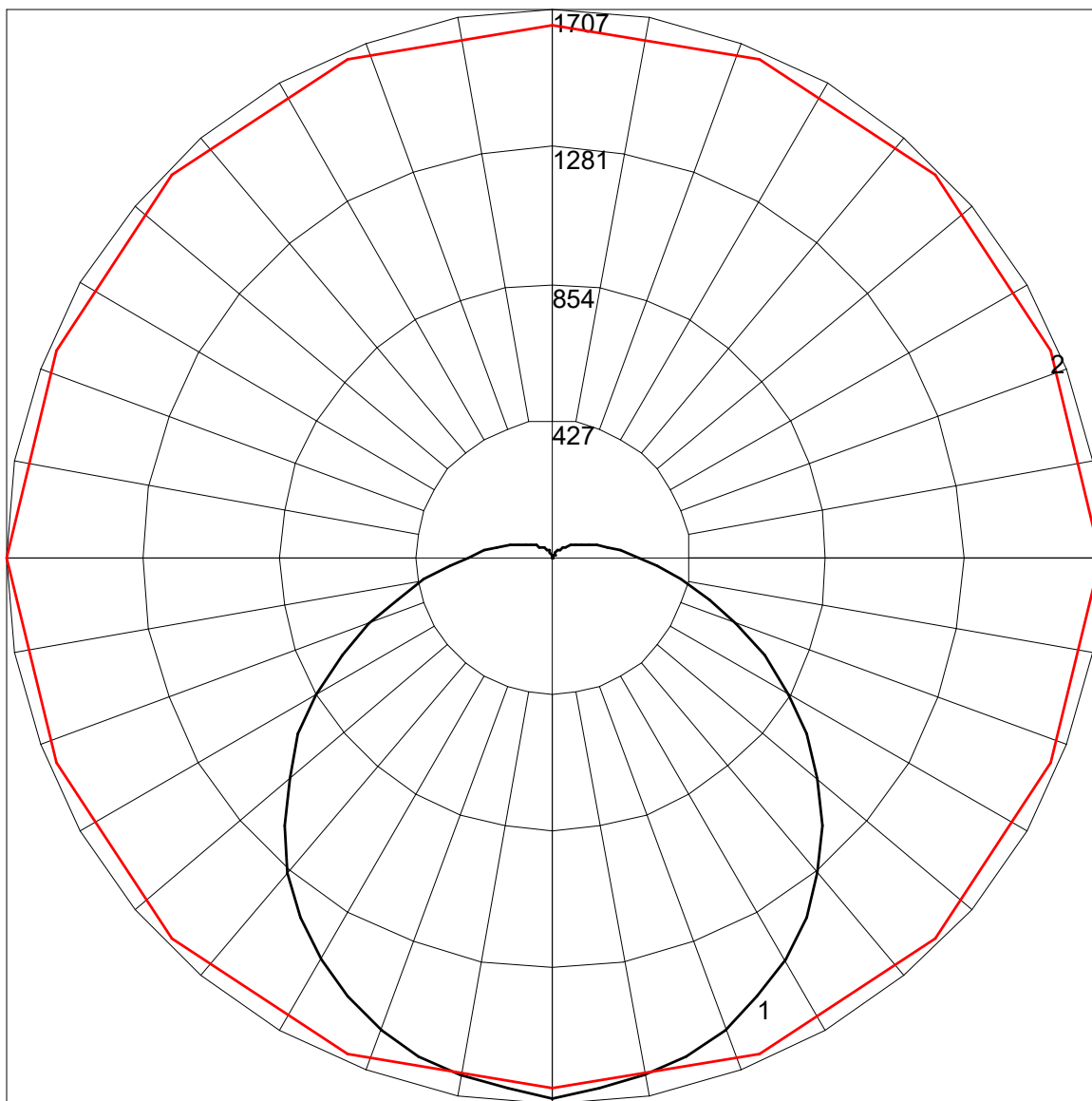
Reflectances

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	15.0	16.5	15.4	16.9	17.4	18.4	19.8	18.8	20.3	20.8
	3H	16.2	17.5	16.6	18.0	18.5	20.6	21.9	21.0	22.4	22.9
	4H	16.5	17.8	17.0	18.3	18.8	21.6	22.9	22.1	23.4	23.9
	6H	16.7	17.9	17.2	18.4	18.9	22.6	23.8	23.2	24.3	24.9
	8H	16.7	17.8	17.2	18.4	18.9	23.2	24.3	23.7	24.8	25.4
	12H	16.7	17.8	17.2	18.3	18.9	23.7	24.8	24.3	25.3	25.9
4H	2H	16.0	17.3	16.5	17.8	18.3	18.7	20.0	19.2	20.4	21.0
	3H	17.5	18.6	18.0	19.1	19.6	21.1	22.2	21.6	22.7	23.3
	4H	17.9	18.9	18.5	19.5	20.1	22.3	23.3	22.8	23.8	24.4
	6H	18.2	19.1	18.8	19.6	20.3	23.5	24.4	24.1	25.0	25.6
	8H	18.3	19.1	18.8	19.7	20.3	24.1	25.0	24.7	25.5	26.1
	12H	18.3	19.0	18.9	19.6	20.3	24.8	25.6	25.4	26.2	26.8
8H	4H	18.7	19.5	19.3	20.1	20.7	22.4	23.3	23.0	23.8	24.5
	6H	19.2	19.9	19.8	20.5	21.1	23.8	24.5	24.4	25.1	25.7
	8H	19.3	19.9	19.9	20.6	21.2	24.6	25.2	25.2	25.8	26.5
	12H	19.4	20.0	20.0	20.6	21.3	25.4	26.0	26.0	26.6	27.3
12H	4H	18.9	19.6	19.5	20.2	20.9	22.4	23.2	23.0	23.8	24.4
	6H	19.5	20.1	20.1	20.7	21.4	23.9	24.5	24.5	25.1	25.7
	8H	19.7	20.3	20.3	20.9	21.6	24.6	25.2	25.3	25.8	26.5

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 1707.417 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)