



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L60-8FS-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] 1-NOV-2019

[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-L60-8FS-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	5788
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	40.3
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	20241	17114	17084
55	16705	14646	15040
65	13758	12302	12670
75	9296	10109	10381
85	5455	8682	8513

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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	1853.823	1853.823	1853.823	1853.823	1853.823
5	1874.176	1846.744	1847.629	1843.205	1824.622
10	1843.205	1820.198	1824.622	1821.968	1805.155
15	1789.227	1772.414	1784.803	1790.112	1772.414
20	1707.818	1703.394	1724.631	1733.480	1722.861
25	1612.251	1618.445	1648.531	1668.883	1660.920
30	1502.526	1511.375	1562.698	1593.669	1591.899
35	1368.909	1384.837	1459.167	1502.526	1508.720
40	1226.444	1237.947	1331.744	1397.225	1412.268
45	1058.316	1087.517	1195.473	1282.191	1303.428
50	883.995	930.894	1062.741	1157.423	1183.969
55	716.753	777.809	926.469	1025.576	1063.626
60	576.942	633.574	795.507	894.614	934.433
65	443.325	505.266	673.394	763.651	798.162
70	310.593	393.772	557.474	636.229	669.854
75	191.134	297.320	450.404	524.734	553.935
80	106.186	205.292	359.261	428.282	446.864
85	45.129	141.581	286.701	345.988	358.376
90	6.194	97.337	222.105	274.313	291.125
95	0.885	66.366	177.861	217.680	235.378
100	0.000	43.359	138.041	177.861	192.019
105	0.000	30.971	107.070	145.120	156.624
110	0.000	21.237	82.294	118.574	128.308
115	0.000	17.698	67.251	99.107	106.186
120	0.000	13.273	51.323	81.409	88.488
125	0.000	7.964	38.050	64.596	72.560
130	0.000	5.309	27.431	50.438	57.517
135	0.000	2.655	20.352	39.820	45.129
140	0.000	2.655	14.158	30.971	35.395
145	0.000	0.000	8.849	19.467	24.777
150	0.000	0.000	6.194	14.158	17.698
155	0.000	0.000	4.424	7.079	11.503
160	0.000	0.000	1.770	5.309	6.194
165	0.000	0.000	0.000	1.770	2.655
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	677.89	N.A.	11.70
0-30	1435.1	N.A.	24.80
0-40	2338.69	N.A.	40.40
0-60	4065.65	N.A.	70.20
0-80	5140.56	N.A.	88.80
0-90	5410.72	N.A.	93.50
10-90	5235.21	N.A.	90.50
20-40	1660.8	N.A.	28.70
20-50	2576.35	N.A.	44.50
40-70	2363.65	N.A.	40.80
60-80	1074.9	N.A.	18.60
70-80	438.21	N.A.	7.60
80-90	270.16	N.A.	4.70
90-110	257.82	N.A.	4.50
90-120	316.92	N.A.	5.50
90-130	350.47	N.A.	6.10
90-150	374.43	N.A.	6.50
90-180	376.94	N.A.	6.50
110-180	119.12	N.A.	2.10
0-180	5787.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	175.51
10-20	502.39
20-30	757.21
30-40	903.59
40-50	915.56
50-60	811.41
60-70	636.69
70-80	438.21
80-90	270.16
90-100	160.85
100-110	96.96
110-120	59.11
120-130	33.55
130-140	16.95
140-150	7.00
150-160	2.19
160-170	0.32
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	268	268	268	268	260	260	260	260	245	245	245	232	232	232	219	219	219	213
1	242	230	219	209	234	223	213	205	211	203	195	199	193	187	189	183	179	173
2	219	199	183	169	212	194	179	166	183	171	160	173	163	154	164	156	148	143
3	200	175	156	140	193	170	152	138	161	146	134	153	140	129	145	134	125	120
4	183	155	134	119	176	151	132	117	143	127	114	136	122	111	129	117	108	102
5	168	138	117	102	162	135	115	101	128	111	98	122	107	96	116	104	94	88
6	155	124	104	89	150	121	102	88	116	99	86	111	96	84	106	93	82	77
7	144	113	93	79	139	110	91	78	105	88	76	101	86	75	97	83	73	68
8	134	103	83	70	130	101	82	69	96	80	68	92	78	67	89	75	65	61
9	125	94	76	63	121	93	75	62	89	73	61	85	71	60	82	69	59	55
10	117	87	69	57	114	85	68	57	82	66	56	79	65	55	76	63	54	50

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UGR TABLE - CORRECTED

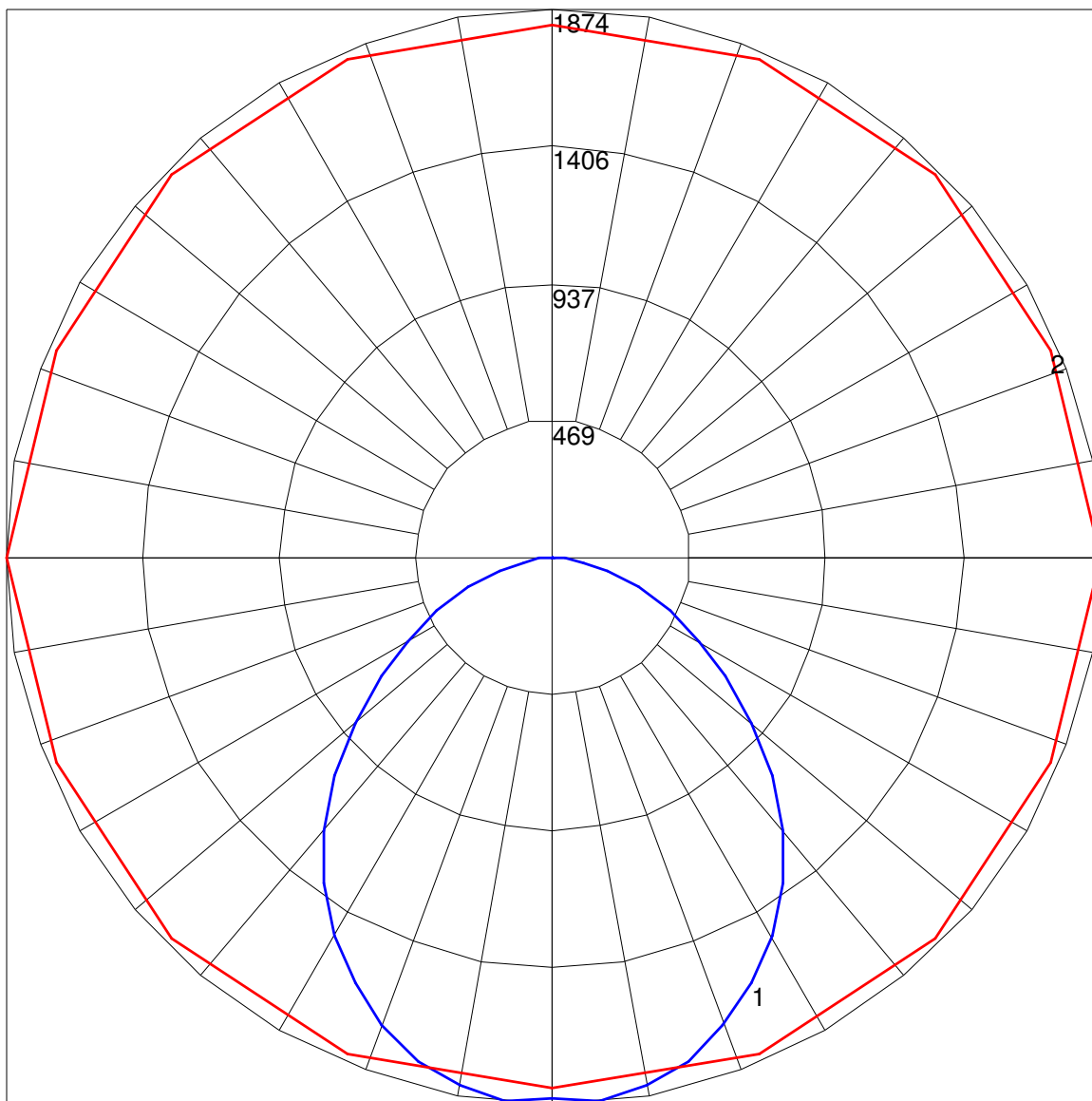
Reflectances

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	17.0	18.5	17.5	19.0	19.5	19.4	20.9	19.8	21.3	21.8
	3H	18.5	19.9	19.0	20.3	20.9	21.6	22.9	22.0	23.4	23.9
	4H	19.0	20.3	19.5	20.8	21.3	22.6	23.9	23.1	24.4	24.9
	6H	19.3	20.5	19.8	21.0	21.6	23.6	24.8	24.2	25.3	25.9
	8H	19.4	20.5	19.9	21.1	21.6	24.2	25.3	24.7	25.8	26.4
	12H	19.5	20.6	20.0	21.1	21.7	24.7	25.8	25.3	26.3	26.9
4H	2H	17.8	19.1	18.3	19.6	20.1	19.7	21.0	20.2	21.5	22.0
	3H	19.5	20.6	20.0	21.1	21.7	22.1	23.2	22.6	23.7	24.3
	4H	20.1	21.1	20.7	21.6	22.2	23.3	24.3	23.8	24.8	25.4
	6H	20.6	21.4	21.1	22.0	22.6	24.5	25.4	25.1	26.0	26.6
	8H	20.7	21.5	21.3	22.1	22.7	25.1	26.0	25.7	26.5	27.1
	12H	20.8	21.5	21.4	22.1	22.8	25.8	26.6	26.4	27.2	27.8
8H	4H	20.6	21.5	21.2	22.0	22.6	23.5	24.3	24.0	24.8	25.5
	6H	21.2	21.9	21.8	22.6	23.2	24.8	25.5	25.4	26.1	26.7
	8H	21.5	22.1	22.1	22.7	23.4	25.6	26.2	26.2	26.8	27.5
	12H	21.7	22.2	22.3	22.8	23.5	26.4	27.0	27.0	27.6	28.3
12H	4H	20.7	21.5	21.3	22.1	22.7	23.4	24.2	24.0	24.8	25.4
	6H	21.5	22.1	22.1	22.7	23.3	24.9	25.5	25.5	26.1	26.8
	8H	21.8	22.3	22.4	22.9	23.6	25.6	26.2	26.3	26.8	27.5

Maximum UGR = 28.3

POLAR GRAPH



Maximum Candela = 1874.176 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.)