



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-(L55)-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] 03-22-2021

[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-L65-835-(L55)-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	5533
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	37.9
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	19349	16360	16331
55	15969	14001	14377
65	13152	11760	12112
75	8887	9663	9924
85	5215	8300	8138

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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	1772.150	1772.150	1772.150	1772.150	1772.150
5	1791.606	1765.383	1766.229	1762.000	1744.236
10	1762.000	1740.006	1744.236	1741.698	1725.626
15	1710.400	1694.328	1706.170	1711.246	1694.328
20	1632.578	1628.348	1648.650	1657.109	1646.958
25	1541.221	1547.142	1575.903	1595.358	1587.745
30	1436.330	1444.789	1493.851	1523.457	1521.765
35	1308.600	1323.826	1394.881	1436.330	1442.251
40	1172.411	1183.407	1273.072	1335.668	1350.049
45	1011.691	1039.605	1142.804	1225.702	1246.003
50	845.049	889.882	1015.920	1106.431	1131.808
55	685.175	743.542	885.652	980.392	1016.766
60	551.524	605.661	760.460	855.200	893.265
65	423.793	483.006	643.726	730.007	762.997
70	296.909	376.423	532.914	608.199	640.343
75	182.713	284.221	430.561	501.616	529.530
80	101.507	196.248	343.433	409.413	427.177
85	43.141	135.343	274.070	330.745	342.588
90	5.921	93.048	212.320	262.227	278.299
95	0.846	63.442	170.025	208.090	225.008
100	0.000	41.449	131.960	170.025	183.559
105	0.000	29.606	102.353	138.727	149.723
110	0.000	20.301	78.668	113.350	122.655
115	0.000	16.918	64.288	94.740	101.507
120	0.000	12.688	49.062	77.822	84.590
125	0.000	7.613	36.373	61.750	69.363
130	0.000	5.075	26.223	48.216	54.983
135	0.000	2.538	19.456	38.065	43.141
140	0.000	2.538	13.534	29.606	33.836
145	0.000	0.000	8.459	18.610	23.685
150	0.000	0.000	5.921	13.534	16.918
155	0.000	0.000	4.229	6.767	10.997
160	0.000	0.000	1.692	5.075	5.921
165	0.000	0.000	0.000	1.692	2.538
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	648.03	N.A.	11.70
0-30	1371.88	N.A.	24.80
0-40	2235.65	N.A.	40.40
0-60	3886.54	N.A.	70.20
0-80	4914.08	N.A.	88.80
0-90	5172.34	N.A.	93.50
10-90	5004.56	N.A.	90.50
20-40	1587.63	N.A.	28.70
20-50	2462.85	N.A.	44.50
40-70	2259.52	N.A.	40.80
60-80	1027.55	N.A.	18.60
70-80	418.91	N.A.	7.60
80-90	258.26	N.A.	4.70
90-110	246.46	N.A.	4.50
90-120	302.96	N.A.	5.50
90-130	335.03	N.A.	6.10
90-150	357.93	N.A.	6.50
90-180	360.33	N.A.	6.50
110-180	113.87	N.A.	2.10
0-180	5532.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.78
10-20	480.25
20-30	723.85
30-40	863.78
40-50	875.22
50-60	775.66
60-70	608.64
70-80	418.91
80-90	258.26
90-100	153.77
100-110	92.69
110-120	56.50
120-130	32.07
130-140	16.21
140-150	6.69
150-160	2.09
160-170	0.31
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	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

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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	18.7	20.2	19.1	20.6	21.1	22.1	23.6	22.5	24.0	24.5
	3H	19.9	21.2	20.3	21.7	22.2	24.3	25.6	24.7	26.1	26.6
	4H	20.2	21.5	20.7	22.0	22.5	25.3	26.6	25.8	27.1	27.6
	6H	20.4	21.6	20.9	22.1	22.6	26.3	27.5	26.9	28.0	28.6
	8H	20.4	21.5	20.9	22.1	22.6	26.9	28.0	27.4	28.5	29.1
	12H	20.4	21.5	20.9	22.0	22.6	27.4	28.5	28.0	29.0	29.6

UGR Viewed Endwise

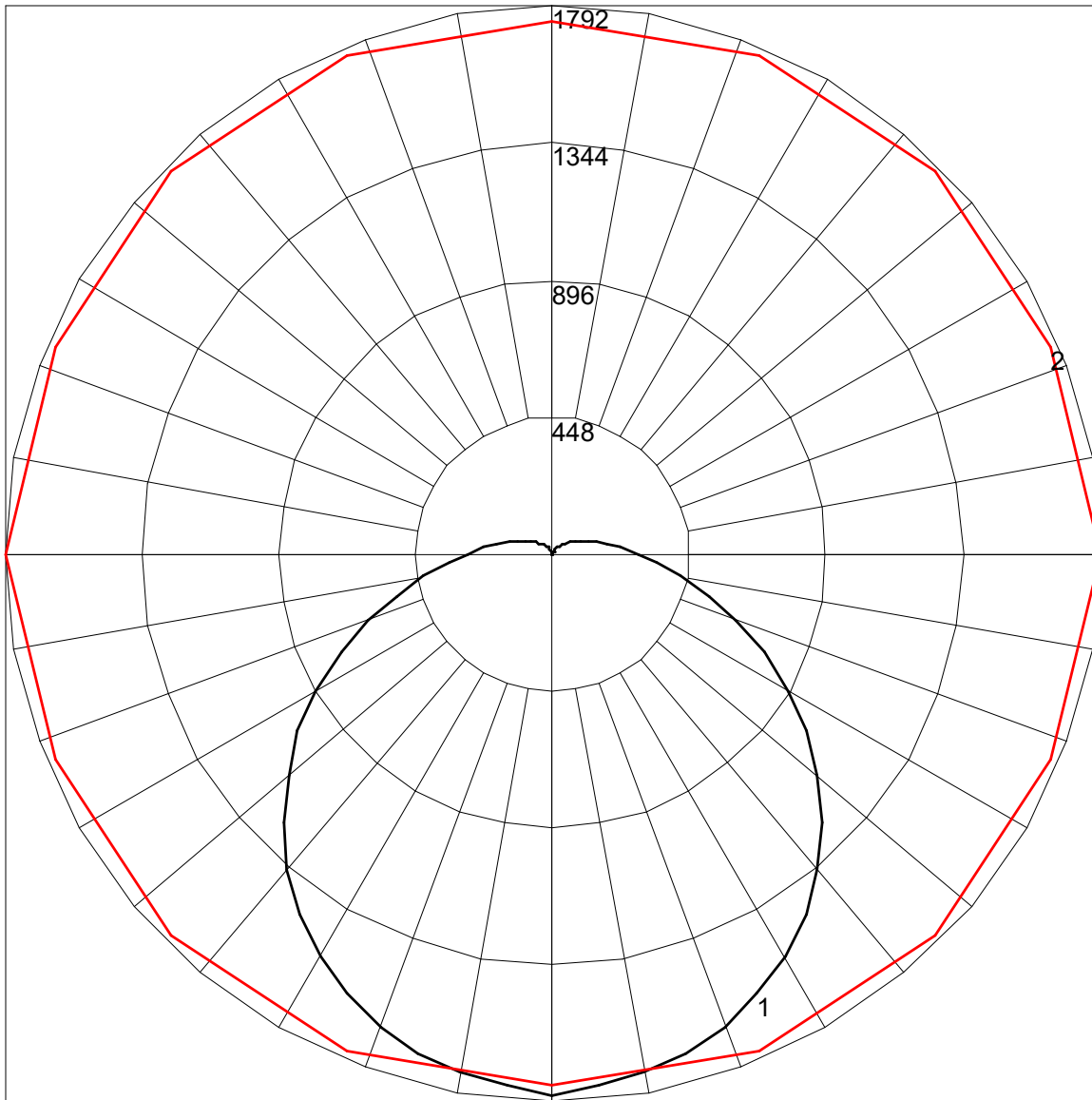
4H	2H	19.7	21.0	20.2	21.5	22.0	22.4	23.7	22.9	24.2	24.7
	3H	21.2	22.3	21.7	22.8	23.3	24.8	25.9	25.3	26.4	27.0
	4H	21.6	22.6	22.2	23.2	23.8	26.0	27.0	26.5	27.5	28.1
	6H	21.9	22.8	22.5	23.3	24.0	27.2	28.1	27.8	28.7	29.3
	8H	22.0	22.8	22.5	23.4	24.0	27.8	28.7	28.4	29.2	29.8
	12H	22.0	22.7	22.6	23.3	24.0	28.5	29.3	29.1	29.9	30.5

8H	4H	22.4	23.2	23.0	23.8	24.4	26.2	27.0	26.7	27.5	28.2
	6H	22.9	23.6	23.5	24.2	24.8	27.5	28.2	28.1	28.8	29.4
	8H	23.0	23.6	23.6	24.3	24.9	28.3	28.9	28.9	29.5	30.2
	12H	23.1	23.7	23.7	24.3	25.0	29.1	29.7	29.7	30.3	31.0

12H	4H	22.6	23.3	23.2	23.9	24.6	26.1	26.9	26.7	27.5	28.1
	6H	23.2	23.8	23.8	24.4	25.1	27.6	28.2	28.2	28.8	29.5
	8H	23.4	24.0	24.0	24.6	25.3	28.3	28.9	29.0	29.5	30.2

Maximum UGR = 31.0

POLAR GRAPH



Maximum Candela = 1791.606 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.)