



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L130-840-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] 03/02/2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' LED LENSED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L130-840-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	12722
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	87.9
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)	7.44 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	22555	18948	18778
55	18721	16248	16531
65	15562	13683	13926
75	10725	11285	11411
85	6822	9752	9357

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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	4075.016	4075.016	4075.016	4075.016	4075.016
5	4119.754	4059.455	4061.400	4051.674	4010.827
10	4051.674	4001.101	4010.827	4004.992	3968.035
15	3933.022	3896.065	3923.297	3934.968	3896.065
20	3754.072	3744.346	3791.029	3810.480	3787.139
25	3543.999	3557.615	3623.749	3668.487	3650.981
30	3302.805	3322.256	3435.073	3503.152	3499.262
35	3009.093	3044.105	3207.495	3302.805	3316.421
40	2695.929	2721.216	2927.398	3071.337	3104.403
45	2326.358	2390.546	2627.850	2818.472	2865.154
50	1943.170	2046.261	2336.083	2544.210	2602.564
55	1575.543	1709.756	2036.535	2254.388	2338.028
60	1268.215	1392.702	1748.658	1966.511	2054.041
65	974.503	1110.661	1480.232	1678.634	1754.494
70	682.735	865.576	1225.422	1398.538	1472.452
75	420.145	653.559	990.064	1153.453	1217.642
80	233.414	451.267	789.717	941.436	982.283
85	99.201	311.218	630.217	760.540	787.772
90	13.616	213.963	488.224	602.986	639.943
95	1.945	145.884	390.968	478.498	517.401
100	0.000	95.311	303.438	390.968	422.090
105	0.000	68.079	235.359	318.999	344.285
110	0.000	46.683	180.896	260.645	282.042
115	0.000	38.902	147.829	217.853	233.414
120	0.000	29.177	112.817	178.951	194.511
125	0.000	17.506	83.640	141.993	159.499
130	0.000	11.671	60.299	110.872	126.432
135	0.000	5.835	44.738	87.530	99.201
140	0.000	5.835	31.122	68.079	77.805
145	0.000	0.000	19.451	42.793	54.463
150	0.000	0.000	13.616	31.122	38.902
155	0.000	0.000	9.726	15.561	25.286
160	0.000	0.000	3.890	11.671	13.616
165	0.000	0.000	0.000	3.890	5.835
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	1490.12	N.A.	11.70
0-30	3154.6	N.A.	24.80
0-40	5140.83	N.A.	40.40
0-60	8936.99	N.A.	70.20
0-80	11299.81	N.A.	88.80
0-90	11893.67	N.A.	93.50
10-90	11507.87	N.A.	90.50
20-40	3650.71	N.A.	28.70
20-50	5663.25	N.A.	44.50
40-70	5195.71	N.A.	40.80
60-80	2362.81	N.A.	18.60
70-80	963.27	N.A.	7.60
80-90	593.86	N.A.	4.70
90-110	566.72	N.A.	4.50
90-120	696.65	N.A.	5.50
90-130	770.40	N.A.	6.10
90-150	823.06	N.A.	6.50
90-180	828.57	N.A.	6.50
110-180	261.85	N.A.	2.10
0-180	12722.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	385.80
10-20	1104.33
20-30	1664.47
30-40	1986.23
40-50	2012.55
50-60	1783.61
60-70	1399.55
70-80	963.27
80-90	593.86
90-100	353.58
100-110	213.14
110-120	129.93
120-130	73.75
130-140	37.26
140-150	15.39
150-160	4.81
160-170	0.70
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	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	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

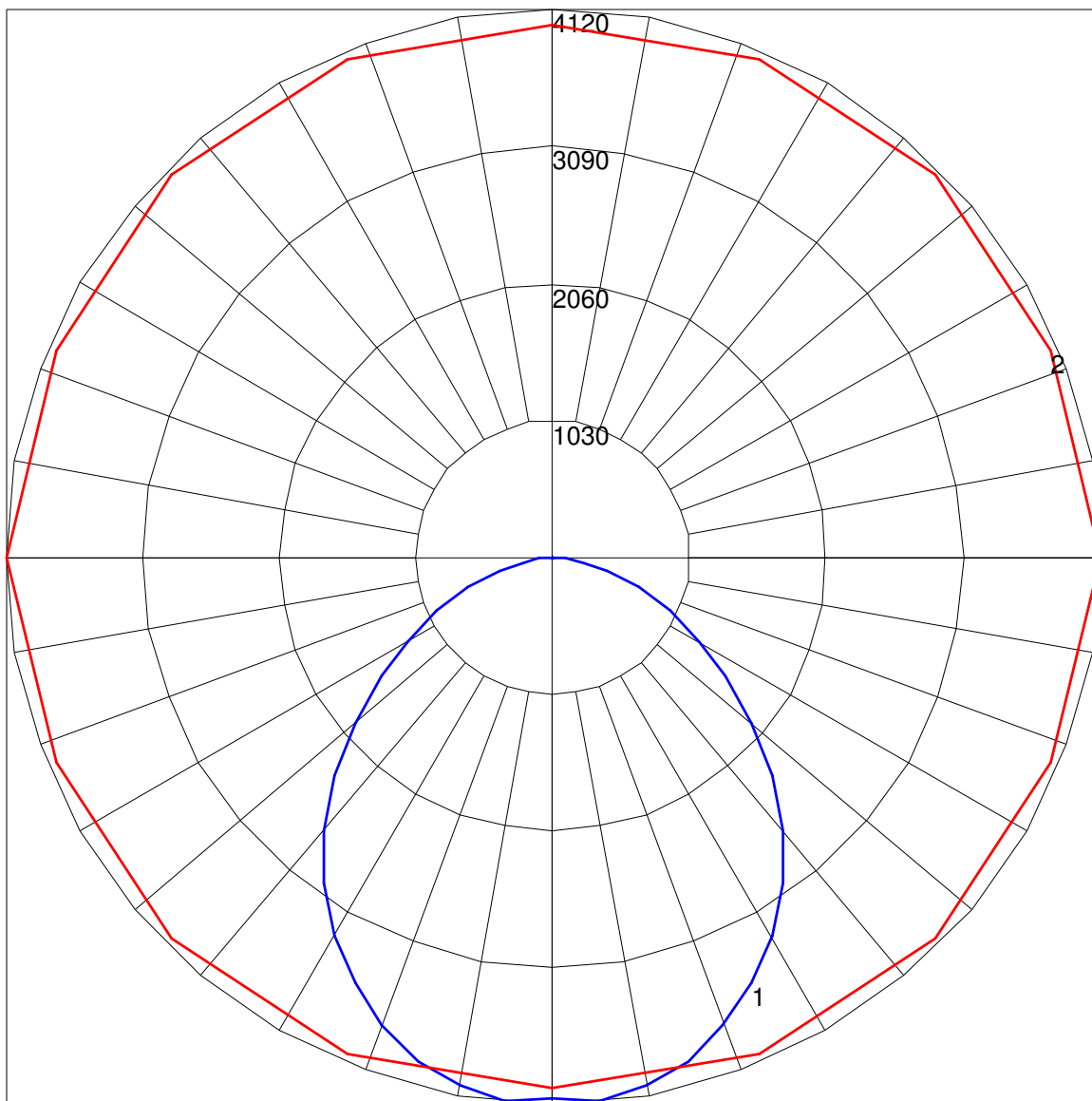
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.2	20.7	19.6	21.1	21.6	22.6	24.1	23.1	24.6	25.0
	3H	20.4	21.7	20.8	22.2	22.7	24.8	26.2	25.3	26.7	27.2
	4H	20.7	22.0	21.2	22.5	23.0	25.9	27.2	26.4	27.6	28.2
	6H	20.9	22.1	21.4	22.6	23.1	26.9	28.1	27.5	28.6	29.2
	8H	20.9	22.0	21.4	22.6	23.1	27.5	28.6	28.0	29.1	29.7
	12H	20.9	22.0	21.5	22.5	23.1	28.1	29.2	28.6	29.7	30.3
4H	2H	20.2	21.5	20.8	22.0	22.6	22.9	24.2	23.4	24.7	25.2
	3H	21.7	22.8	22.2	23.3	23.9	25.4	26.5	25.9	27.0	27.5
	4H	22.1	23.1	22.7	23.7	24.3	26.6	27.6	27.1	28.1	28.7
	6H	22.4	23.3	23.0	23.9	24.5	27.8	28.7	28.4	29.3	29.9
	8H	22.5	23.3	23.1	23.9	24.5	28.5	29.3	29.0	29.8	30.5
	12H	22.5	23.3	23.1	23.9	24.5	29.2	29.9	29.8	30.5	31.1
8H	4H	22.9	23.7	23.5	24.3	24.9	26.7	27.5	27.3	28.1	28.7
	6H	23.4	24.1	24.0	24.7	25.3	28.1	28.8	28.7	29.4	30.0
	8H	23.5	24.2	24.2	24.8	25.4	28.9	29.5	29.5	30.1	30.8
	12H	23.6	24.2	24.2	24.8	25.5	29.8	30.3	30.4	30.9	31.6
12H	4H	23.1	23.9	23.7	24.5	25.1	26.7	27.5	27.3	28.1	28.7
	6H	23.7	24.3	24.3	24.9	25.6	28.2	28.8	28.8	29.4	30.0
	8H	24.0	24.5	24.6	25.1	25.8	29.0	29.5	29.6	30.1	30.8

Maximum UGR = 31.6

POLAR GRAPH



Maximum Candela = 4119.754 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.)