



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L170-950-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] 03/09/2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 8' SURFACE MOUNT LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-8-L170-950-DIM-UNV

[LAMPCAT] HLM 90 CRI 5000K 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	14414
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	112.4
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	25554	21467	21275
55	21210	18409	18730
65	17632	15503	15778
75	12151	12786	12928
85	7729	11049	10601

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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	4616.942	4616.942	4616.942	4616.942	4616.942
5	4667.629	4599.312	4601.515	4590.496	4544.217
10	4590.496	4533.198	4544.217	4537.605	4495.733
15	4456.065	4414.193	4445.046	4458.269	4414.193
20	4253.316	4242.297	4295.188	4317.226	4290.781
25	4015.307	4030.734	4105.662	4156.350	4136.516
30	3742.037	3764.075	3891.895	3969.027	3964.620
35	3409.265	3448.933	3634.051	3742.037	3757.463
40	3054.454	3083.103	3316.705	3479.786	3517.250
45	2635.734	2708.459	2977.322	3193.293	3246.184
50	2201.587	2318.388	2646.753	2882.559	2948.672
55	1785.071	1937.132	2307.369	2554.194	2648.957
60	1436.872	1577.914	1981.208	2228.033	2327.203
65	1104.099	1258.365	1677.085	1901.872	1987.819
70	773.531	980.687	1388.388	1584.526	1668.270
75	476.019	740.474	1121.730	1306.848	1379.573
80	264.455	511.279	894.739	1066.635	1112.914
85	112.393	352.607	714.028	861.682	892.535
90	15.427	242.417	553.152	683.175	725.047
95	2.204	165.284	442.962	542.133	586.208
100	0.000	107.986	343.791	442.962	478.223
105	0.000	77.133	266.659	361.422	390.071
110	0.000	52.891	204.953	295.308	319.550
115	0.000	44.076	167.488	246.825	264.455
120	0.000	33.057	127.820	202.749	220.379
125	0.000	19.834	94.763	160.877	180.711
130	0.000	13.223	68.318	125.616	143.246
135	0.000	6.611	50.687	99.171	112.393
140	0.000	6.611	35.261	77.133	88.152
145	0.000	0.000	22.038	48.483	61.706
150	0.000	0.000	15.427	35.261	44.076
155	0.000	0.000	11.019	17.630	28.649
160	0.000	0.000	4.408	13.223	15.427
165	0.000	0.000	0.000	4.408	6.611
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	1688.29	N.A.	11.70
0-30	3574.12	N.A.	24.80
0-40	5824.5	N.A.	40.40
0-60	10125.5	N.A.	70.20
0-80	12802.54	N.A.	88.80
0-90	13475.38	N.A.	93.50
10-90	13038.27	N.A.	90.50
20-40	4136.21	N.A.	28.70
20-50	6416.4	N.A.	44.50
40-70	5886.68	N.A.	40.80
60-80	2677.04	N.A.	18.60
70-80	1091.37	N.A.	7.60
80-90	672.84	N.A.	4.70
90-110	642.09	N.A.	4.50
90-120	789.30	N.A.	5.50
90-130	872.86	N.A.	6.10
90-150	932.52	N.A.	6.50
90-180	938.76	N.A.	6.50
110-180	296.67	N.A.	2.10
0-180	14414.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	437.10
10-20	1251.19
20-30	1885.83
30-40	2250.38
40-50	2280.19
50-60	2020.81
60-70	1585.67
70-80	1091.37
80-90	672.84
90-100	400.61
100-110	241.48
110-120	147.21
120-130	83.56
130-140	42.22
140-150	17.44
150-160	5.45
160-170	0.80
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

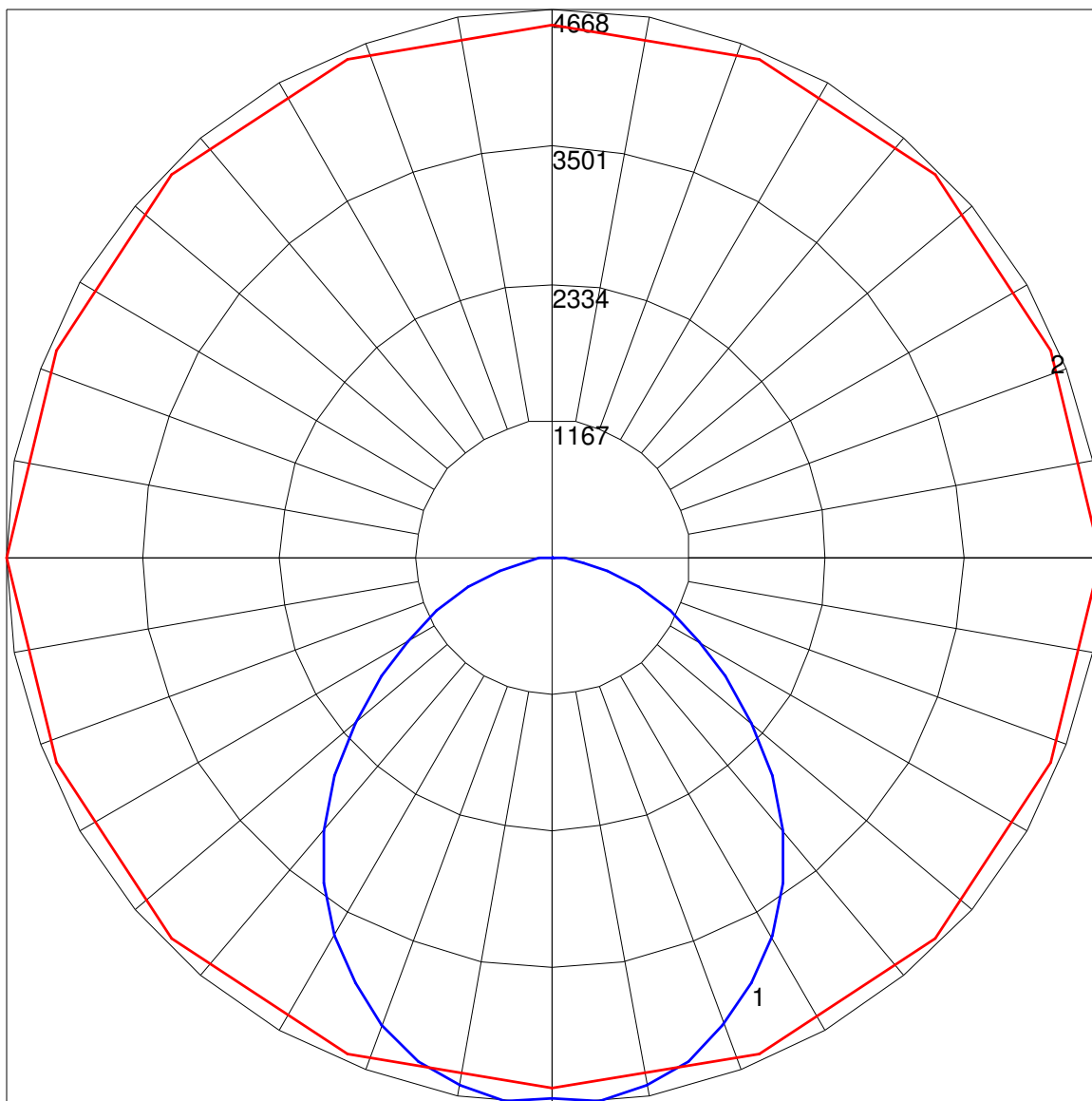
Reflectances

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	19.7	21.2	20.1	21.6	22.1	23.1	24.6	23.6	25.1	25.5
	3H	20.9	22.2	21.3	22.7	23.2	25.3	26.7	25.8	27.2	27.7
	4H	21.2	22.5	21.7	23.0	23.5	26.4	27.7	26.9	28.1	28.7
	6H	21.4	22.6	21.9	23.1	23.6	27.4	28.6	28.0	29.1	29.7
	8H	21.4	22.5	21.9	23.1	23.6	28.0	29.1	28.5	29.6	30.2
	12H	21.4	22.5	22.0	23.0	23.6	28.6	29.7	29.1	30.2	30.8
4H	2H	20.7	22.0	21.3	22.5	23.1	23.4	24.7	23.9	25.2	25.7
	3H	22.2	23.3	22.7	23.8	24.4	25.9	27.0	26.4	27.5	28.0
	4H	22.6	23.6	23.2	24.2	24.8	27.1	28.1	27.6	28.6	29.2
	6H	22.9	23.8	23.5	24.4	25.0	28.3	29.2	28.9	29.8	30.4
	8H	23.0	23.8	23.6	24.4	25.0	29.0	29.8	29.5	30.3	31.0
	12H	23.0	23.8	23.6	24.4	25.0	29.7	30.4	30.3	31.0	31.6
8H	4H	23.4	24.2	24.0	24.8	25.4	27.2	28.0	27.8	28.6	29.2
	6H	23.9	24.6	24.5	25.2	25.8	28.6	29.3	29.2	29.9	30.5
	8H	24.0	24.7	24.7	25.3	25.9	29.4	30.0	30.0	30.6	31.3
	12H	24.1	24.7	24.7	25.3	26.0	30.3	30.8	30.9	31.4	32.1
12H	4H	23.6	24.4	24.2	25.0	25.6	27.2	28.0	27.8	28.6	29.2
	6H	24.2	24.8	24.8	25.4	26.1	28.7	29.3	29.3	29.9	30.5
	8H	24.5	25.0	25.1	25.6	26.3	29.5	30.0	30.1	30.6	31.3

Maximum UGR = 32.1

POLAR GRAPH



Maximum Candela = 4667.629 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.)