



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L170-840-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-L170-840-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	16681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
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	29573	24843	24621
55	24546	21304	21675
65	20405	17941	18260
75	14062	14796	14962
85	8945	12787	12268

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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	5343.036	5343.036	5343.036	5343.036	5343.036
5	5401.694	5322.633	5325.183	5312.431	5258.873
10	5312.431	5246.121	5258.873	5251.222	5202.765
15	5156.858	5108.401	5144.106	5159.409	5108.401
20	4922.224	4909.472	4970.681	4996.185	4965.580
25	4646.783	4664.636	4751.349	4810.007	4787.054
30	4330.537	4356.040	4503.962	4593.225	4588.125
35	3945.430	3991.337	4205.568	4330.537	4348.389
40	3534.820	3567.975	3838.314	4027.042	4070.398
45	3050.248	3134.411	3445.557	3695.493	3756.702
50	2547.825	2682.994	3063.000	3335.890	3412.402
55	2065.804	2241.780	2670.243	2955.885	3065.551
60	1662.844	1826.068	2292.787	2578.429	2693.196
65	1277.738	1456.264	1940.835	2200.974	2300.438
70	895.182	1134.917	1606.736	1833.720	1930.634
75	550.881	856.926	1298.141	1512.372	1596.535
80	306.045	591.687	1035.452	1234.381	1287.939
85	130.069	408.060	826.321	997.197	1032.902
90	17.853	280.541	640.144	790.616	839.073
95	2.550	191.278	512.625	627.392	678.400
100	0.000	124.968	397.858	512.625	553.431
105	0.000	89.263	308.595	418.261	451.416
110	0.000	61.209	237.185	341.750	369.804
115	0.000	51.007	193.828	285.642	306.045
120	0.000	38.256	147.922	234.634	255.037
125	0.000	22.953	109.666	186.177	209.131
130	0.000	15.302	79.062	145.371	165.774
135	0.000	7.651	58.659	114.767	130.069
140	0.000	7.651	40.806	89.263	102.015
145	0.000	0.000	25.504	56.108	71.410
150	0.000	0.000	17.853	40.806	51.007
155	0.000	0.000	12.752	20.403	33.155
160	0.000	0.000	5.101	15.302	17.853
165	0.000	0.000	0.000	5.101	7.651
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	1953.8	N.A.	11.70
0-30	4136.21	N.A.	24.80
0-40	6740.5	N.A.	40.40
0-60	11717.91	N.A.	70.20
0-80	14815.96	N.A.	88.80
0-90	15594.61	N.A.	93.50
10-90	15088.77	N.A.	90.50
20-40	4786.7	N.A.	28.70
20-50	7425.49	N.A.	44.50
40-70	6812.46	N.A.	40.80
60-80	3098.05	N.A.	18.60
70-80	1263.00	N.A.	7.60
80-90	778.65	N.A.	4.70
90-110	743.07	N.A.	4.50
90-120	913.43	N.A.	5.50
90-130	1010.13	N.A.	6.10
90-150	1079.17	N.A.	6.50
90-180	1086.4	N.A.	6.50
110-180	343.33	N.A.	2.10
0-180	16681.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	505.84
10-20	1447.96
20-30	2182.41
30-40	2604.29
40-50	2638.79
50-60	2338.62
60-70	1835.05
70-80	1263.00
80-90	778.65
90-100	463.61
100-110	279.46
110-120	170.36
120-130	96.70
130-140	48.86
140-150	20.18
150-160	6.31
160-170	0.92
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

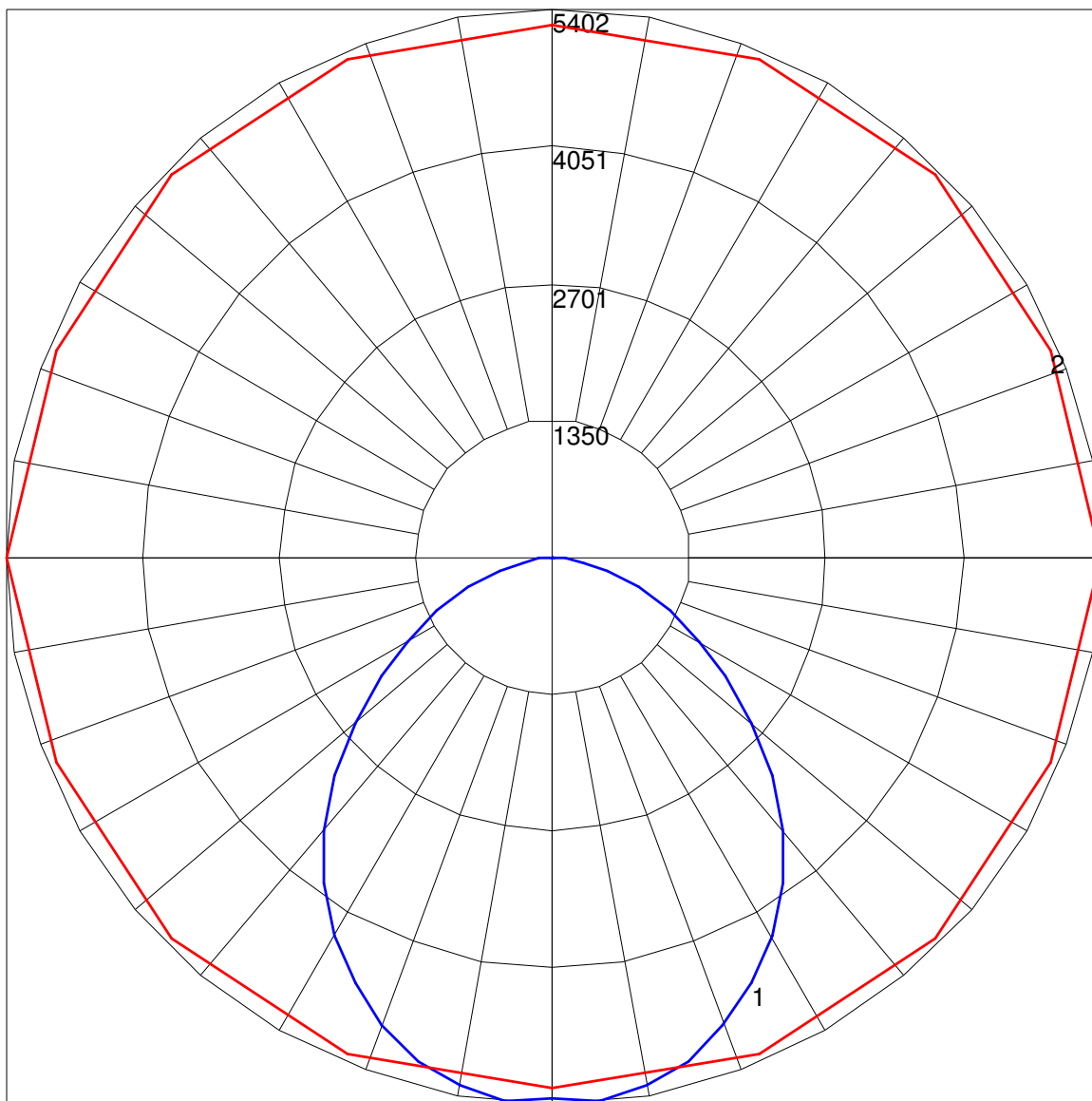
Reflectances

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	20.2	21.7	20.6	22.1	22.6	23.6	25.1	24.1	25.6	26.0
	3H	21.4	22.7	21.8	23.2	23.7	25.8	27.2	26.3	27.7	28.2
	4H	21.7	23.0	22.2	23.5	24.0	26.9	28.2	27.4	28.6	29.2
	6H	21.9	23.1	22.4	23.6	24.1	27.9	29.1	28.5	29.6	30.2
	8H	21.9	23.0	22.4	23.6	24.1	28.5	29.6	29.0	30.1	30.7
	12H	21.9	23.0	22.5	23.5	24.1	29.1	30.2	29.6	30.7	31.3
4H	2H	21.2	22.5	21.8	23.0	23.6	23.9	25.2	24.4	25.7	26.2
	3H	22.7	23.8	23.2	24.3	24.9	26.4	27.5	26.9	28.0	28.5
	4H	23.1	24.1	23.7	24.7	25.3	27.6	28.6	28.1	29.1	29.7
	6H	23.4	24.3	24.0	24.9	25.5	28.8	29.7	29.4	30.3	30.9
	8H	23.5	24.3	24.1	24.9	25.5	29.5	30.3	30.0	30.8	31.5
	12H	23.5	24.3	24.1	24.9	25.5	30.2	30.9	30.8	31.5	32.1
8H	4H	23.9	24.7	24.5	25.3	25.9	27.7	28.5	28.3	29.1	29.7
	6H	24.4	25.1	25.0	25.7	26.3	29.1	29.8	29.7	30.4	31.0
	8H	24.5	25.2	25.2	25.8	26.4	29.9	30.5	30.5	31.1	31.8
	12H	24.6	25.2	25.2	25.8	26.5	30.8	31.3	31.4	31.9	32.6
12H	4H	24.1	24.9	24.7	25.5	26.1	27.7	28.5	28.3	29.1	29.7
	6H	24.7	25.3	25.3	25.9	26.6	29.2	29.8	29.8	30.4	31.0
	8H	25.0	25.5	25.6	26.1	26.8	30.0	30.5	30.6	31.1	31.8

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 5401.694 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.)