



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L200-950-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-L200-950-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	17159
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	136.5
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	30420	25555	25326
55	25249	21914	22296
65	20990	18455	18783
75	14465	15220	15390
85	9201	13153	12620

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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	5496.132	5496.132	5496.132	5496.132	5496.132
5	5556.471	5475.144	5477.768	5464.650	5409.558
10	5464.650	5396.441	5409.558	5401.688	5351.842
15	5304.620	5254.774	5291.503	5307.243	5254.774
20	5063.262	5050.145	5113.108	5139.342	5107.861
25	4779.929	4798.294	4887.491	4947.830	4924.219
30	4454.621	4480.856	4633.016	4724.837	4719.590
35	4058.480	4105.702	4326.072	4454.621	4472.986
40	3636.104	3670.209	3948.295	4142.431	4187.029
45	3137.649	3224.222	3544.284	3801.382	3864.345
50	2620.828	2759.871	3150.766	3431.475	3510.179
55	2124.996	2306.014	2746.754	3040.581	3153.389
60	1710.491	1878.392	2358.483	2652.310	2770.365
65	1314.349	1497.991	1996.447	2264.039	2366.354
70	920.832	1167.436	1652.775	1886.262	1985.953
75	566.666	881.480	1335.337	1555.707	1642.281
80	314.814	608.641	1065.121	1269.751	1324.843
85	133.796	419.752	849.998	1025.770	1062.498
90	18.364	288.580	658.486	813.270	863.116
95	2.623	196.759	527.314	645.369	697.838
100	0.000	128.549	409.259	527.314	569.289
105	0.000	91.821	317.438	430.246	464.351
110	0.000	62.963	243.981	351.543	380.401
115	0.000	52.469	199.382	293.827	314.814
120	0.000	39.352	152.160	241.358	262.345
125	0.000	23.611	112.808	191.512	215.123
130	0.000	15.741	81.327	149.537	170.524
135	0.000	7.870	60.339	118.055	133.796
140	0.000	7.870	41.975	91.821	104.938
145	0.000	0.000	26.235	57.716	73.457
150	0.000	0.000	18.364	41.975	52.469
155	0.000	0.000	13.117	20.988	34.105
160	0.000	0.000	5.247	15.741	18.364
165	0.000	0.000	0.000	5.247	7.870
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	2009.79	N.A.	11.70
0-30	4254.73	N.A.	24.80
0-40	6933.64	N.A.	40.40
0-60	12053.67	N.A.	70.20
0-80	15240.49	N.A.	88.80
0-90	16041.45	N.A.	93.50
10-90	15521.11	N.A.	90.50
20-40	4923.85	N.A.	28.70
20-50	7638.25	N.A.	44.50
40-70	7007.66	N.A.	40.80
60-80	3186.82	N.A.	18.60
70-80	1299.19	N.A.	7.60
80-90	800.96	N.A.	4.70
90-110	764.36	N.A.	4.50
90-120	939.60	N.A.	5.50
90-130	1039.07	N.A.	6.10
90-150	1110.09	N.A.	6.50
90-180	1117.53	N.A.	6.50
110-180	353.17	N.A.	2.10
0-180	17158.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	520.34
10-20	1489.45
20-30	2244.94
30-40	2678.91
40-50	2714.4
50-60	2405.63
60-70	1887.63
70-80	1299.19
80-90	800.96
90-100	476.89
100-110	287.47
110-120	175.24
120-130	99.47
130-140	50.26
140-150	20.76
150-160	6.49
160-170	0.95
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	20.3	21.8	20.7	22.2	22.7	23.7	25.2	24.2	25.7	26.1
	3H	21.5	22.8	21.9	23.3	23.8	25.9	27.3	26.4	27.8	28.3
	4H	21.8	23.1	22.3	23.6	24.1	27.0	28.3	27.5	28.7	29.3
	6H	22.0	23.2	22.5	23.7	24.2	28.0	29.2	28.6	29.7	30.3
	8H	22.0	23.1	22.5	23.7	24.2	28.6	29.7	29.1	30.2	30.8
	12H	22.0	23.1	22.6	23.6	24.2	29.2	30.3	29.7	30.8	31.4

UGR Viewed Endwise

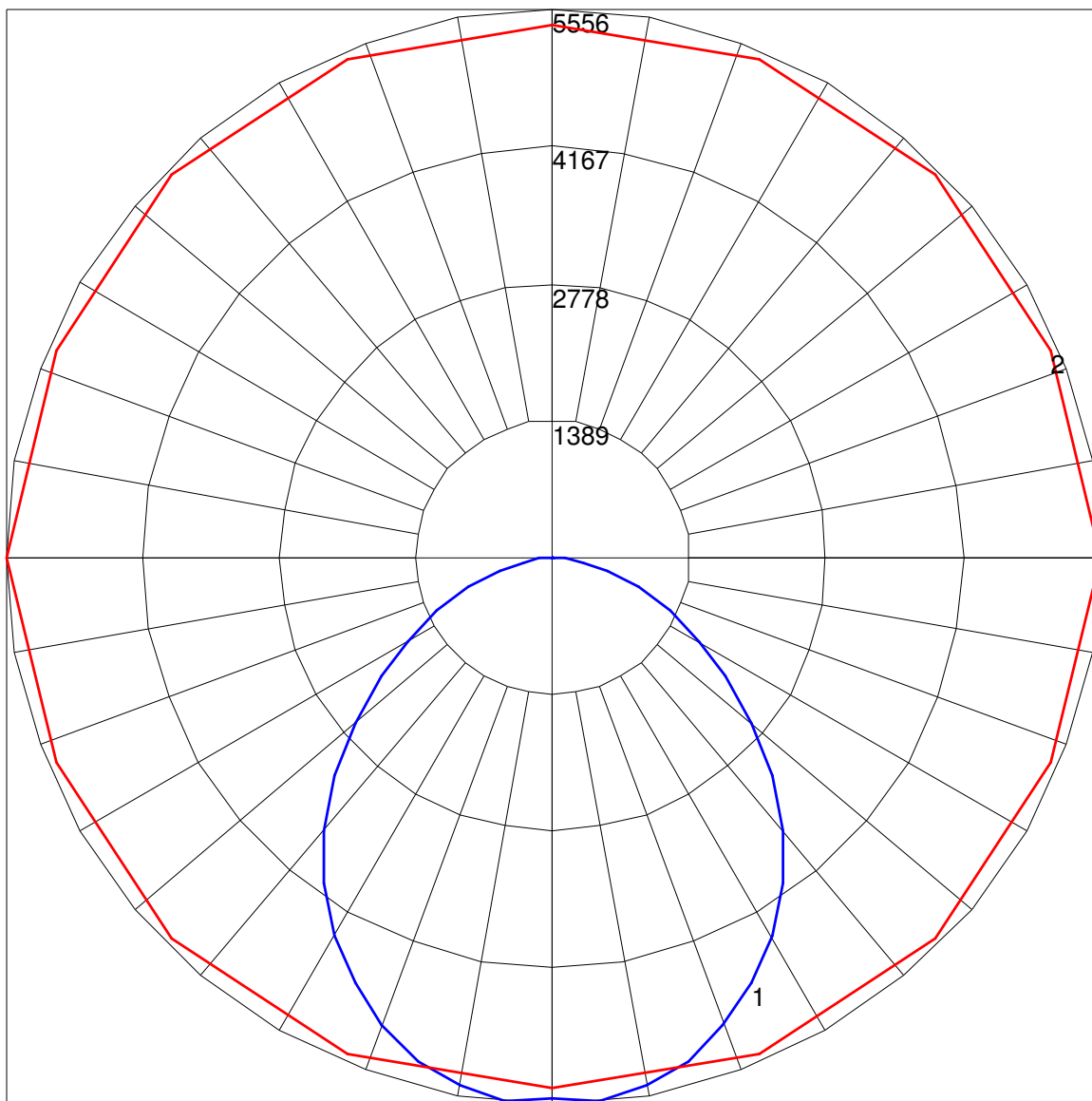
4H	2H	21.3	22.6	21.9	23.1	23.7	24.0	25.3	24.5	25.8	26.3
	3H	22.8	23.9	23.3	24.4	25.0	26.5	27.6	27.0	28.1	28.6
	4H	23.2	24.2	23.8	24.8	25.4	27.7	28.7	28.2	29.2	29.8
	6H	23.5	24.4	24.1	25.0	25.6	28.9	29.8	29.5	30.4	31.0
	8H	23.6	24.4	24.2	25.0	25.6	29.6	30.4	30.1	30.9	31.6
	12H	23.6	24.4	24.2	25.0	25.6	30.3	31.0	30.9	31.6	32.2

8H	4H	24.0	24.8	24.6	25.4	26.0	27.8	28.6	28.4	29.2	29.8
	6H	24.5	25.2	25.1	25.8	26.4	29.2	29.9	29.8	30.5	31.1
	8H	24.6	25.3	25.3	25.9	26.5	30.0	30.6	30.6	31.2	31.9
	12H	24.7	25.3	25.3	25.9	26.6	30.9	31.4	31.5	32.0	32.7

12H	4H	24.2	25.0	24.8	25.6	26.2	27.8	28.6	28.4	29.2	29.8
	6H	24.8	25.4	25.4	26.0	26.7	29.3	29.9	29.9	30.5	31.1
	8H	25.1	25.6	25.7	26.2	26.9	30.1	30.6	30.7	31.2	31.9

Maximum UGR = 32.7

POLAR GRAPH



Maximum Candela = 5556.471 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.)