



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-8-L170-835-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] 12-08-2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO  
 [LUMINAIRE] 8' SURFACE MOUNT STRIP LUMINAIRE  
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS  
 [LUMCAT] 75R-8-L170-835-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	17059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
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	30233	25398	25170
55	25094	21779	22159
65	20860	18341	18667
75	14376	15127	15295
85	9145	13072	12542

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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	5464.104	5464.104	5464.104	5464.104	5464.104
5	5524.092	5443.238	5445.847	5432.806	5378.034
10	5432.806	5364.993	5378.034	5370.210	5320.655
15	5273.708	5224.153	5260.667	5276.316	5224.153
20	5033.757	5020.716	5083.312	5109.393	5078.095
25	4752.075	4770.332	4859.010	4918.997	4895.524
30	4428.663	4454.744	4606.018	4697.303	4692.087
35	4034.830	4081.777	4300.863	4428.663	4446.920
40	3614.915	3648.822	3925.287	4118.291	4162.630
45	3119.364	3205.434	3523.630	3779.230	3841.826
50	2605.556	2743.789	3132.405	3411.479	3489.724
55	2112.613	2292.576	2730.748	3022.862	3135.013
60	1700.523	1867.445	2344.740	2636.854	2754.221
65	1306.690	1489.262	1984.813	2250.846	2352.564
70	915.466	1160.633	1643.143	1875.270	1974.380
75	563.363	876.343	1327.556	1546.641	1632.711
80	312.980	605.094	1058.915	1262.351	1317.123
85	133.016	417.306	845.045	1019.792	1056.306
90	18.257	286.898	654.649	808.531	858.086
95	2.608	195.612	524.241	641.608	693.772
100	0.000	127.800	406.874	524.241	565.972
105	0.000	91.286	315.588	427.739	461.645
110	0.000	62.596	242.559	349.494	378.184
115	0.000	52.163	198.220	292.114	312.980
120	0.000	39.122	151.274	239.951	260.816
125	0.000	23.473	112.151	190.396	213.869
130	0.000	15.649	80.853	148.665	169.531
135	0.000	7.824	59.988	117.367	133.016
140	0.000	7.824	41.731	91.286	104.327
145	0.000	0.000	26.082	57.380	73.029
150	0.000	0.000	18.257	41.731	52.163
155	0.000	0.000	13.041	20.865	33.906
160	0.000	0.000	5.216	15.649	18.257
165	0.000	0.000	0.000	5.216	7.824
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	1998.08	N.A.	11.70
0-30	4229.93	N.A.	24.80
0-40	6893.23	N.A.	40.40
0-60	11983.43	N.A.	70.20
0-80	15151.68	N.A.	88.80
0-90	15947.97	N.A.	93.50
10-90	15430.67	N.A.	90.50
20-40	4895.16	N.A.	28.70
20-50	7593.74	N.A.	44.50
40-70	6966.82	N.A.	40.80
60-80	3168.25	N.A.	18.60
70-80	1291.62	N.A.	7.60
80-90	796.29	N.A.	4.70
90-110	759.91	N.A.	4.50
90-120	934.12	N.A.	5.50
90-130	1033.02	N.A.	6.10
90-150	1103.62	N.A.	6.50
90-180	1111.02	N.A.	6.50
110-180	351.11	N.A.	2.10
0-180	17058.99	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	517.31
10-20	1480.77
20-30	2231.86
30-40	2663.3
40-50	2698.58
50-60	2391.61
60-70	1876.63
70-80	1291.62
80-90	796.29
90-100	474.11
100-110	285.79
110-120	174.22
120-130	98.89
130-140	49.97
140-150	20.64
150-160	6.45
160-170	0.94
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	22.5	23.6	24.2	29.2	30.3	29.7	30.8	31.4

UGR Viewed Endwise

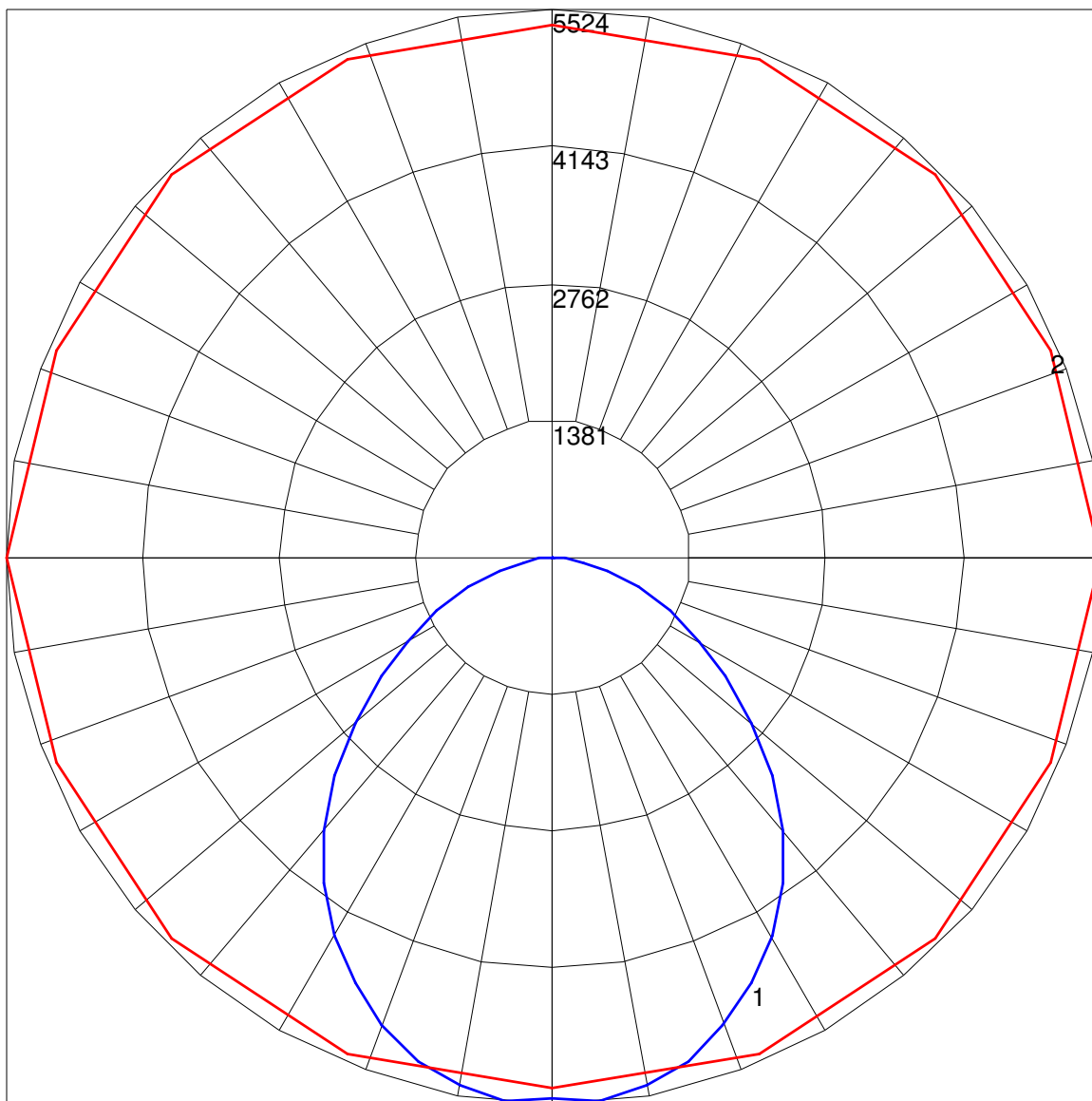
4H	2H	21.3	22.6	21.9	23.1	23.7	24.0	25.3	24.5	25.8	26.3
	3H	22.8	23.9	23.3	24.4	25.0	26.5	27.6	27.0	28.1	28.6
	4H	23.2	24.2	23.8	24.8	25.4	27.7	28.7	28.2	29.2	29.8
	6H	23.5	24.4	24.1	25.0	25.6	28.9	29.8	29.5	30.4	31.0
	8H	23.6	24.4	24.2	25.0	25.6	29.6	30.4	30.1	30.9	31.6
	12H	23.6	24.4	24.2	25.0	25.6	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	25.0	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 = 5524.092 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.)