



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L200-835-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] 31-AUG-2020

[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-L200-835-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	19280
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	141
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	34169	28704	28447
55	28361	24615	25044
65	23576	20729	21097
75	16247	17096	17287
85	10335	14774	14175

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : 75R-8-L200-835-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	6175.461	6175.461	6175.461	6175.461	6175.461
5	6243.258	6151.879	6154.827	6140.088	6078.186
10	6140.088	6063.448	6078.186	6069.343	6013.337
15	5960.278	5904.271	5945.539	5963.226	5904.271
20	5689.088	5674.350	5745.095	5774.572	5739.199
25	5370.735	5391.369	5491.591	5559.389	5532.859
30	5005.219	5034.696	5205.663	5308.833	5302.938
35	4560.114	4613.173	4860.781	5005.219	5025.853
40	4085.532	4123.852	4436.310	4654.441	4704.552
45	3525.466	3622.741	3982.362	4271.238	4341.983
50	2944.766	3100.995	3540.205	3855.610	3944.041
55	2387.648	2591.041	3086.257	3416.401	3543.152
60	1921.910	2110.563	2649.995	2980.139	3112.786
65	1476.805	1683.145	2243.210	2543.877	2658.838
70	1034.648	1311.733	1857.060	2119.406	2231.420
75	636.706	990.432	1500.386	1747.994	1845.269
80	353.726	683.870	1196.772	1426.694	1488.596
85	150.333	471.634	955.059	1152.556	1193.824
90	20.634	324.249	739.876	913.791	969.798
95	2.948	221.079	592.491	725.138	784.092
100	0.000	144.438	459.843	592.491	639.654
105	0.000	103.170	356.673	483.425	521.745
110	0.000	70.745	274.137	394.994	427.419
115	0.000	58.954	224.026	330.144	353.726
120	0.000	44.216	170.967	271.190	294.771
125	0.000	26.529	126.752	215.183	241.713
130	0.000	17.686	91.379	168.020	191.601
135	0.000	8.843	67.797	132.647	150.333
140	0.000	8.843	47.163	103.170	117.909
145	0.000	0.000	29.477	64.850	82.536
150	0.000	0.000	20.634	47.163	58.954
155	0.000	0.000	14.739	23.582	38.320
160	0.000	0.000	5.895	17.686	20.634
165	0.000	0.000	0.000	5.895	8.843
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-8-L200-835-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2258.2	N.A.	11.70
0-30	4780.62	N.A.	24.80
0-40	7790.65	N.A.	40.40
0-60	13543.52	N.A.	70.20
0-80	17124.23	N.A.	88.80
0-90	18024.2	N.A.	93.50
10-90	17439.54	N.A.	90.50
20-40	5532.45	N.A.	28.70
20-50	8582.35	N.A.	44.50
40-70	7873.81	N.A.	40.80
60-80	3580.71	N.A.	18.60
70-80	1459.78	N.A.	7.60
80-90	899.96	N.A.	4.70
90-110	858.84	N.A.	4.50
90-120	1055.73	N.A.	5.50
90-130	1167.5	N.A.	6.10
90-150	1247.3	N.A.	6.50
90-180	1255.66	N.A.	6.50
110-180	396.82	N.A.	2.10
0-180	19279.85	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	584.65
10-20	1673.55
20-30	2522.42
30-40	3010.03
40-50	3049.9
50-60	2702.97
60-70	2120.94
70-80	1459.78
80-90	899.96
90-100	535.84
100-110	323.00
110-120	196.90
120-130	111.77
130-140	56.47
140-150	23.33
150-160	7.29
160-170	1.06
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-8-L200-835-DIM-UNV_.IES

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	183	183	183	183	178	178	178	178	168	168	168	158	158	158	150	150	150	146
1	166	157	150	143	160	153	146	140	144	139	134	136	132	128	129	125	122	118
2	150	136	125	116	145	133	122	114	125	117	109	119	112	105	113	107	102	98
3	137	120	106	96	132	116	104	94	110	100	91	105	96	89	99	92	86	82
4	125	106	92	81	121	103	90	80	98	87	78	93	83	76	89	80	74	70
5	115	95	80	70	111	92	79	69	88	76	67	84	74	66	80	71	64	60
6	106	85	71	61	103	83	70	60	79	68	59	76	65	58	72	63	56	53
7	98	77	63	54	95	75	62	53	72	61	52	69	59	51	66	57	50	47
8	92	70	57	48	89	69	56	47	66	55	47	63	53	46	61	52	45	42
9	86	65	52	43	83	63	51	43	61	50	42	58	48	41	56	47	40	38
10	80	60	47	39	78	58	47	39	56	45	38	54	44	37	52	43	37	34

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-8-L200-835-DIM-UNV_.IES

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

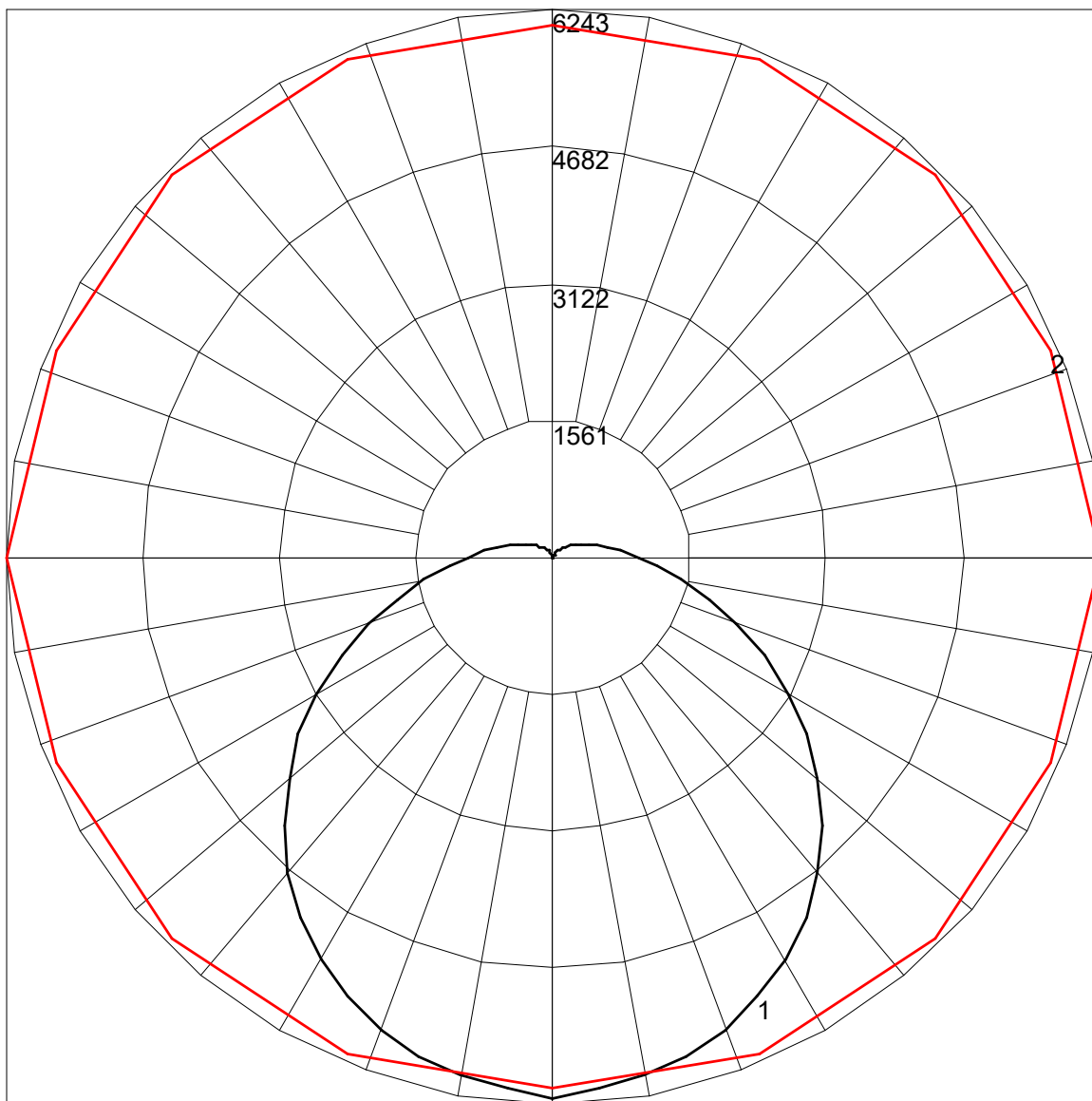
X=2H	Y=2H	19.1	20.6	19.5	21.0	21.5	22.5	24.0	23.0	24.5	24.9
	3H	20.3	21.6	20.7	22.1	22.6	24.7	26.1	25.2	26.6	27.1
	4H	20.6	21.9	21.1	22.4	22.9	25.8	27.1	26.3	27.5	28.1
	6H	20.8	22.0	21.3	22.5	23.0	26.8	28.0	27.4	28.5	29.1
	8H	20.8	21.9	21.3	22.5	23.0	27.4	28.5	27.9	29.0	29.6
	12H	20.8	21.9	21.3	22.4	23.0	28.0	29.1	28.5	29.6	30.2

UGR Viewed Endwise

4H	2H	20.1	21.4	20.7	21.9	22.5	22.8	24.1	23.3	24.6	25.1
	3H	21.6	22.7	22.1	23.2	23.8	25.3	26.4	25.8	26.9	27.4
	4H	22.0	23.0	22.6	23.6	24.2	26.5	27.5	27.0	28.0	28.6
	6H	22.3	23.2	22.9	23.8	24.4	27.7	28.6	28.3	29.2	29.8
	8H	22.4	23.2	23.0	23.8	24.4	28.4	29.2	28.9	29.7	30.4
	12H	22.4	23.2	23.0	23.8	24.4	29.1	29.8	29.7	30.4	31.0
8H	4H	22.8	23.6	23.4	24.2	24.8	26.6	27.4	27.2	28.0	28.6
	6H	23.3	24.0	23.9	24.6	25.2	28.0	28.7	28.6	29.3	29.9
	8H	23.4	24.1	24.1	24.7	25.3	28.8	29.4	29.4	30.0	30.7
	12H	23.5	24.1	24.1	24.7	25.4	29.7	30.2	30.3	30.8	31.5
12H	4H	23.0	23.8	23.6	24.4	25.0	26.6	27.4	27.2	28.0	28.6
	6H	23.6	24.2	24.2	24.8	25.5	28.1	28.7	28.7	29.3	29.9
	8H	23.9	24.4	24.5	25.0	25.7	28.9	29.4	29.5	30.0	30.7

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 6243.258 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)