



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-8-L60-840-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] 05-09-2022

[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-L60-840-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	5520
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	156
Total Luminaire Watts	35.3
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	9782	8218	8144
55	8120	7047	7170
65	6750	5935	6040
75	4652	4894	4949
85	2959	4230	4058

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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	1767.987	1767.987	1767.987	1767.987	1767.987
5	1787.397	1761.235	1762.079	1757.860	1740.138
10	1757.860	1735.918	1740.138	1737.606	1721.572
15	1706.381	1690.347	1702.162	1707.225	1690.347
20	1628.742	1624.522	1644.776	1653.215	1643.088
25	1537.600	1543.507	1572.200	1591.610	1584.015
30	1432.955	1441.394	1490.341	1519.878	1518.190
35	1305.525	1320.716	1391.604	1432.955	1438.863
40	1169.656	1180.627	1270.081	1332.530	1346.877
45	1009.314	1037.163	1140.119	1222.822	1243.076
50	843.064	887.791	1013.533	1103.831	1129.149
55	683.565	741.795	883.571	978.089	1014.377
60	550.228	604.238	758.673	853.191	891.167
65	422.798	481.871	642.214	728.292	761.205
70	296.212	375.539	531.662	606.770	638.838
75	182.284	283.553	429.549	500.437	528.286
80	101.269	195.787	342.627	408.451	426.173
85	43.039	135.025	273.426	329.968	341.783
90	5.907	92.830	211.821	261.611	277.646
95	0.844	63.293	169.625	207.601	224.479
100	0.000	41.351	131.650	169.625	183.128
105	0.000	29.537	102.113	138.401	149.372
110	0.000	20.254	78.483	113.084	122.367
115	0.000	16.878	64.137	94.518	101.269
120	0.000	12.659	48.947	77.640	84.391
125	0.000	7.595	36.288	61.605	69.200
130	0.000	5.063	26.161	48.103	54.854
135	0.000	2.532	19.410	37.976	43.039
140	0.000	2.532	13.503	29.537	33.756
145	0.000	0.000	8.439	18.566	23.629
150	0.000	0.000	5.907	13.503	16.878
155	0.000	0.000	4.220	6.751	10.971
160	0.000	0.000	1.688	5.063	5.907
165	0.000	0.000	0.000	1.688	2.532
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	646.51	N.A.	11.70
0-30	1368.65	N.A.	24.80
0-40	2230.4	N.A.	40.40
0-60	3877.4	N.A.	70.20
0-80	4902.54	N.A.	88.80
0-90	5160.19	N.A.	93.50
10-90	4992.81	N.A.	90.50
20-40	1583.9	N.A.	28.70
20-50	2457.06	N.A.	44.50
40-70	2254.21	N.A.	40.80
60-80	1025.13	N.A.	18.60
70-80	417.92	N.A.	7.60
80-90	257.65	N.A.	4.70
90-110	245.88	N.A.	4.50
90-120	302.25	N.A.	5.50
90-130	334.25	N.A.	6.10
90-150	357.09	N.A.	6.50
90-180	359.48	N.A.	6.50
110-180	113.61	N.A.	2.10
0-180	5519.67	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	167.38
10-20	479.12
20-30	722.15
30-40	861.75
40-50	873.16
50-60	773.84
60-70	607.21
70-80	417.92
80-90	257.65
90-100	153.41
100-110	92.47
110-120	56.37
120-130	32.00
130-140	16.17
140-150	6.68
150-160	2.09
160-170	0.30
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	16.3	17.8	16.7	18.2	18.7	19.7	21.2	20.2	21.7	22.1
	3H	17.5	18.8	17.9	19.3	19.8	21.9	23.3	22.4	23.8	24.3
	4H	17.8	19.1	18.3	19.6	20.1	23.0	24.3	23.5	24.7	25.3
	6H	18.0	19.2	18.5	19.7	20.2	24.0	25.2	24.6	25.7	26.3
	8H	18.0	19.1	18.5	19.7	20.2	24.6	25.7	25.1	26.2	26.8
	12H	18.0	19.1	18.5	19.6	20.2	25.2	26.3	25.7	26.8	27.4

UGR Viewed Endwise

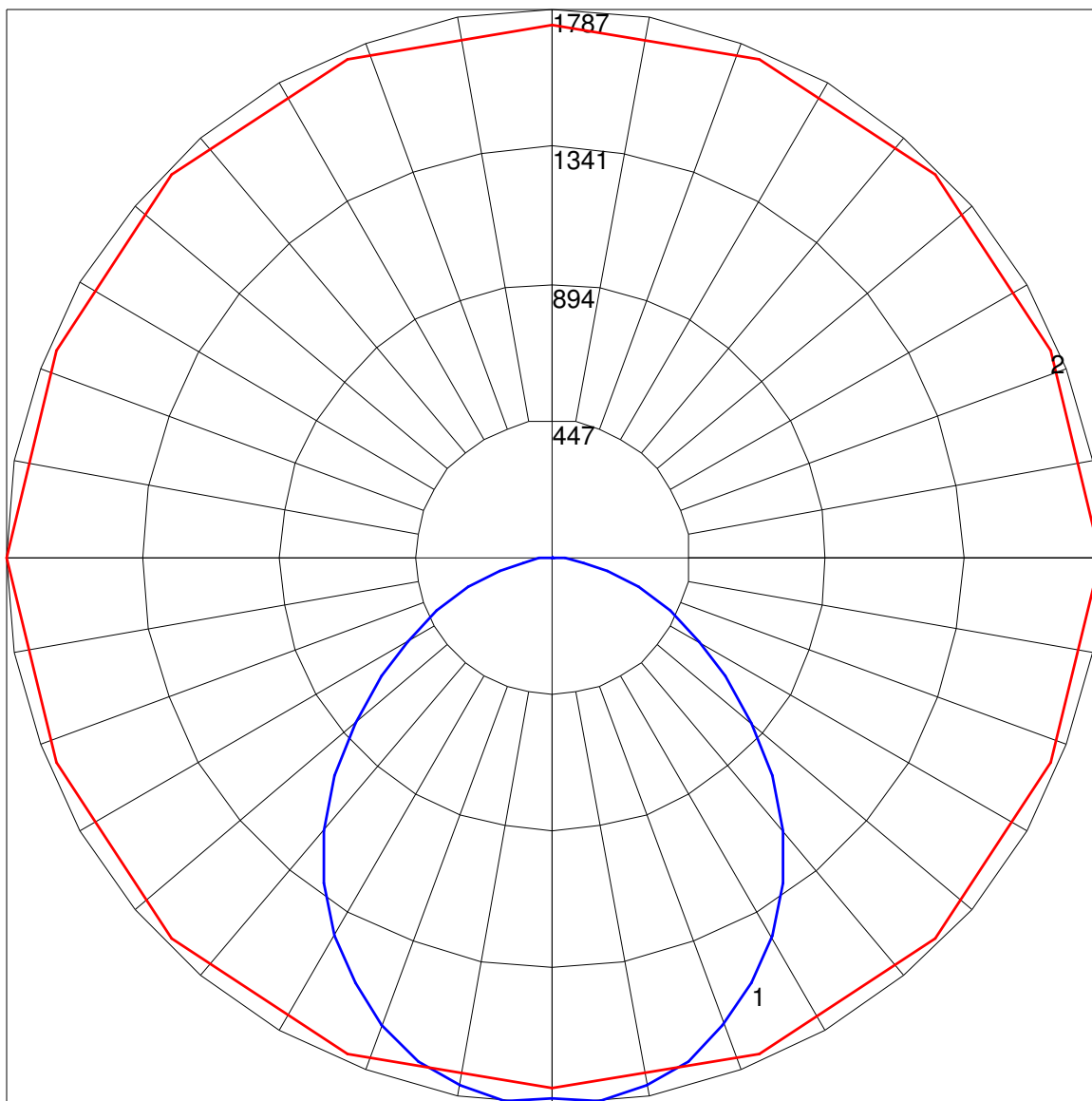
4H	2H	17.3	18.6	17.9	19.1	19.7	20.0	21.3	20.5	21.8	22.3
	3H	18.8	19.9	19.3	20.4	21.0	22.5	23.6	23.0	24.1	24.6
	4H	19.2	20.2	19.8	20.8	21.4	23.7	24.7	24.2	25.2	25.8
	6H	19.5	20.4	20.1	21.0	21.6	24.9	25.8	25.5	26.4	27.0
	8H	19.6	20.4	20.2	21.0	21.6	25.6	26.4	26.1	26.9	27.6
	12H	19.6	20.4	20.2	21.0	21.6	26.3	27.0	26.9	27.6	28.2

8H	4H	20.0	20.8	20.6	21.4	22.0	23.8	24.6	24.4	25.2	25.8
	6H	20.5	21.2	21.1	21.8	22.4	25.2	25.9	25.8	26.5	27.1
	8H	20.6	21.3	21.3	21.9	22.5	26.0	26.6	26.6	27.2	27.9
	12H	20.7	21.3	21.3	21.9	22.6	26.9	27.4	27.5	28.0	28.7

12H	4H	20.2	21.0	20.8	21.6	22.2	23.8	24.6	24.4	25.2	25.8
	6H	20.8	21.4	21.4	22.0	22.7	25.3	25.9	25.9	26.5	27.1
	8H	21.0	21.6	21.7	22.2	22.9	26.1	26.6	26.7	27.2	27.9

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 1787.397 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.)