



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L85-835-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] 12-10-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT LED STRIP

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L85-835-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K 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	8098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	56.2
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)	3.72 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	28319	23944	23902
55	23372	20491	21042
65	19249	17212	17726
75	13006	14143	14525
85	7632	12147	11910

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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	2593.687	2593.687	2593.687	2593.687	2593.687
5	2622.162	2583.783	2585.021	2578.831	2552.832
10	2578.831	2546.642	2552.832	2549.118	2525.595
15	2503.311	2479.788	2497.121	2504.549	2479.788
20	2389.411	2383.221	2412.934	2425.314	2410.458
25	2255.703	2264.370	2306.463	2334.938	2323.795
30	2102.187	2114.567	2186.373	2229.705	2227.229
35	1915.243	1937.528	2041.523	2102.187	2110.853
40	1715.919	1732.014	1863.246	1954.860	1975.907
45	1480.692	1521.547	1672.588	1793.916	1823.628
50	1236.799	1302.415	1486.882	1619.352	1656.493
55	1002.810	1088.235	1296.225	1434.885	1488.120
60	807.200	886.434	1112.995	1251.655	1307.367
65	620.257	706.919	942.146	1068.426	1116.709
70	434.551	550.926	779.963	890.149	937.194
75	267.416	415.980	630.161	734.156	775.011
80	148.564	287.225	502.643	599.210	625.209
85	63.140	198.086	401.124	484.072	501.405
90	8.666	136.184	310.747	383.791	407.314
95	1.238	92.853	248.845	304.557	329.318
100	0.000	60.664	193.134	248.845	268.654
105	0.000	43.331	149.802	203.038	219.133
110	0.000	29.713	115.137	165.897	179.515
115	0.000	24.761	94.091	138.660	148.564
120	0.000	18.571	71.806	113.899	123.804
125	0.000	11.142	53.236	90.377	101.519
130	0.000	7.428	38.379	70.568	80.472
135	0.000	3.714	28.475	55.712	63.140
140	0.000	3.714	19.809	43.331	49.521
145	0.000	0.000	12.380	27.237	34.665
150	0.000	0.000	8.666	19.809	24.761
155	0.000	0.000	6.190	9.904	16.094
160	0.000	0.000	2.476	7.428	8.666
165	0.000	0.000	0.000	2.476	3.714
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	948.44	N.A.	11.70
0-30	2007.86	N.A.	24.80
0-40	3272.06	N.A.	40.40
0-60	5688.26	N.A.	70.20
0-80	7192.16	N.A.	88.80
0-90	7570.14	N.A.	93.50
10-90	7324.59	N.A.	90.50
20-40	2323.62	N.A.	28.70
20-50	3604.58	N.A.	44.50
40-70	3306.99	N.A.	40.80
60-80	1503.9	N.A.	18.60
70-80	613.10	N.A.	7.60
80-90	377.98	N.A.	4.70
90-110	360.71	N.A.	4.50
90-120	443.41	N.A.	5.50
90-130	490.35	N.A.	6.10
90-150	523.86	N.A.	6.50
90-180	527.37	N.A.	6.50
110-180	166.66	N.A.	2.10
0-180	8097.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	245.55
10-20	702.89
20-30	1059.41
30-40	1264.21
40-50	1280.96
50-60	1135.24
60-70	890.79
70-80	613.10
80-90	377.98
90-100	225.05
100-110	135.66
110-120	82.70
120-130	46.94
130-140	23.72
140-150	9.80
150-160	3.06
160-170	0.45
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

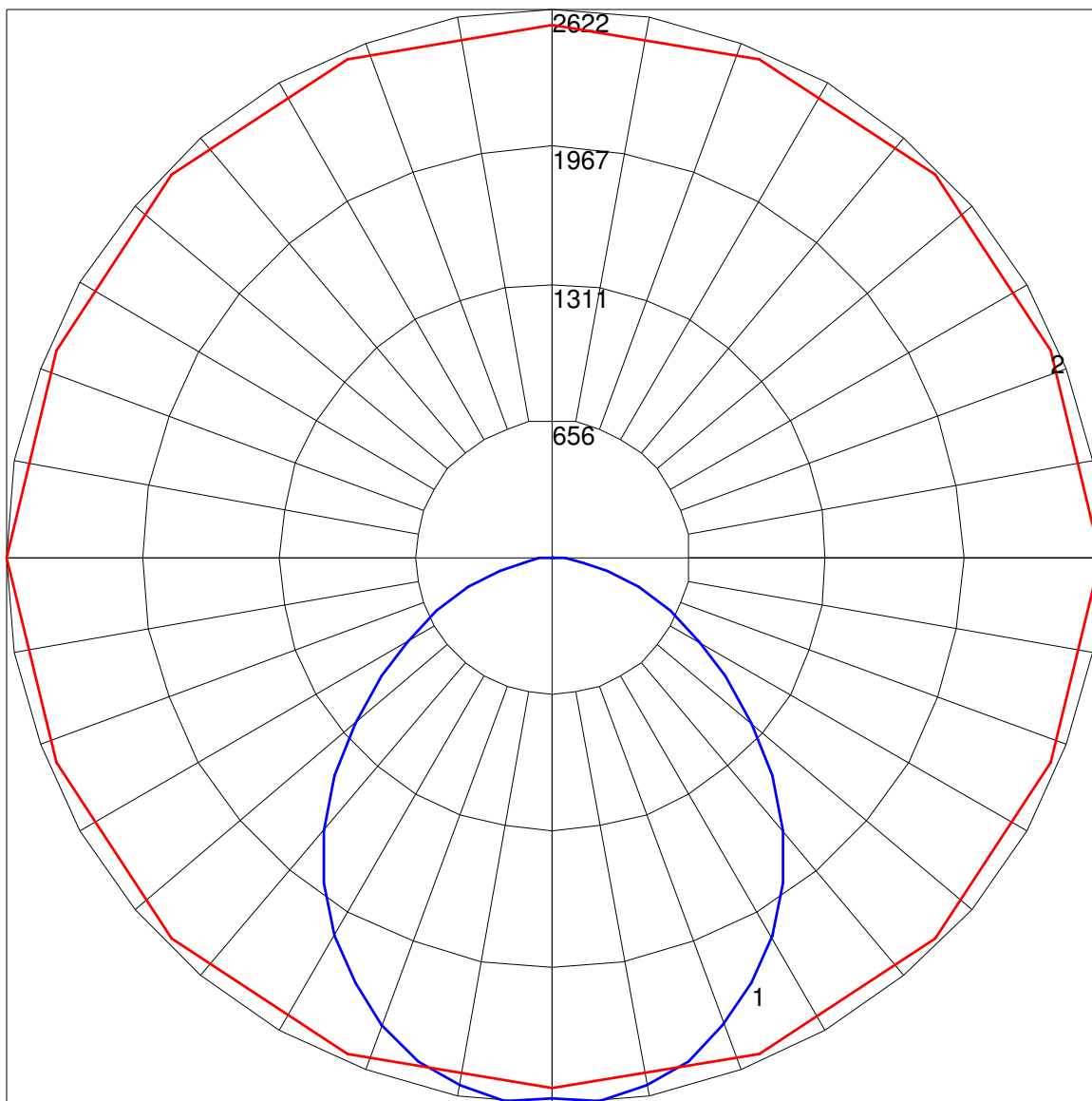
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	20.1	21.6	20.5	22.0	22.5	23.5	25.0	23.9	25.4	25.9
	3H	21.3	22.6	21.7	23.1	23.6	25.7	27.0	26.1	27.5	28.0
	4H	21.6	22.9	22.1	23.4	23.9	26.7	28.0	27.2	28.5	29.0
	6H	21.8	23.0	22.3	23.5	24.0	27.7	28.9	28.3	29.4	30.0
	8H	21.8	22.9	22.3	23.5	24.0	28.3	29.4	28.8	29.9	30.5
	12H	21.8	22.9	22.3	23.4	24.0	28.8	29.9	29.4	30.4	31.0
4H	2H	21.1	22.4	21.6	22.9	23.4	23.8	25.1	24.3	25.6	26.1
	3H	22.6	23.7	23.1	24.2	24.7	26.2	27.3	26.7	27.8	28.4
	4H	23.0	24.0	23.6	24.6	25.2	27.4	28.4	27.9	28.9	29.5
	6H	23.3	24.2	23.9	24.7	25.4	28.6	29.5	29.2	30.1	30.7
	8H	23.4	24.2	23.9	24.8	25.4	29.2	30.1	29.8	30.6	31.2
	12H	23.4	24.1	24.0	24.7	25.4	29.9	30.7	30.5	31.3	31.9
8H	4H	23.8	24.6	24.4	25.2	25.8	27.6	28.4	28.1	28.9	29.6
	6H	24.3	25.0	24.9	25.6	26.2	28.9	29.6	29.5	30.2	30.8
	8H	24.4	25.0	25.0	25.7	26.3	29.7	30.3	30.3	30.9	31.6
	12H	24.5	25.1	25.1	25.7	26.4	30.5	31.1	31.1	31.7	32.4
12H	4H	24.0	24.7	24.6	25.3	26.0	27.5	28.3	28.1	28.9	29.5
	6H	24.6	25.2	25.2	25.8	26.5	29.0	29.6	29.6	30.2	30.9
	8H	24.8	25.4	25.4	26.0	26.7	29.7	30.3	30.4	30.9	31.6

Maximum UGR = 32.4

POLAR GRAPH



Maximum Candela = 2622.162 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.)