



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L65-835-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] 04-16-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 4' SURFACE MOUNT STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L65-835-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	5994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	42.3
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)	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	20961	17723	17692
55	17299	15167	15575
65	14248	12740	13121
75	9627	10468	10751
85	5649	8991	8816

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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	1919.803	1919.803	1919.803	1919.803	1919.803
5	1940.880	1912.472	1913.388	1908.806	1889.563
10	1908.806	1884.981	1889.563	1886.814	1869.402
15	1852.908	1835.497	1848.326	1853.824	1835.497
20	1768.601	1764.019	1786.012	1795.176	1784.180
25	1669.633	1676.048	1707.204	1728.281	1720.033
30	1556.003	1565.166	1618.316	1650.389	1648.556
35	1417.630	1434.125	1511.100	1556.003	1562.417
40	1270.094	1282.007	1379.142	1446.954	1462.532
45	1095.983	1126.223	1238.021	1327.826	1349.819
50	915.457	964.025	1100.565	1198.617	1226.108
55	742.263	805.493	959.443	1062.077	1101.481
60	597.476	656.124	823.820	926.454	967.691
65	459.103	523.249	697.360	790.831	826.569
70	321.647	407.786	577.315	658.873	693.695
75	197.937	307.902	466.434	543.410	573.650
80	109.965	212.599	372.048	443.525	462.769
85	46.735	146.620	296.905	358.302	371.131
90	6.415	100.801	230.010	284.076	301.487
95	0.916	68.728	184.191	225.428	243.755
100	0.000	44.902	142.954	184.191	198.853
105	0.000	32.073	110.881	150.285	162.198
110	0.000	21.993	85.223	122.794	132.874
115	0.000	18.327	69.644	102.634	109.965
120	0.000	13.746	53.150	84.306	91.637
125	0.000	8.247	39.404	66.895	75.143
130	0.000	5.498	28.408	52.233	59.564
135	0.000	2.749	21.077	41.237	46.735
140	0.000	2.749	14.662	32.073	36.655
145	0.000	0.000	9.164	20.160	25.658
150	0.000	0.000	6.415	14.662	18.327
155	0.000	0.000	4.582	7.331	11.913
160	0.000	0.000	1.833	5.498	6.415
165	0.000	0.000	0.000	1.833	2.749
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	702.02	N.A.	11.70
0-30	1486.18	N.A.	24.80
0-40	2421.93	N.A.	40.40
0-60	4210.36	N.A.	70.20
0-80	5323.51	N.A.	88.80
0-90	5603.29	N.A.	93.50
10-90	5421.54	N.A.	90.50
20-40	1719.91	N.A.	28.70
20-50	2668.05	N.A.	44.50
40-70	2447.78	N.A.	40.80
60-80	1113.16	N.A.	18.60
70-80	453.81	N.A.	7.60
80-90	279.78	N.A.	4.70
90-110	266.99	N.A.	4.50
90-120	328.20	N.A.	5.50
90-130	362.95	N.A.	6.10
90-150	387.76	N.A.	6.50
90-180	390.35	N.A.	6.50
110-180	123.36	N.A.	2.10
0-180	5993.64	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	181.75
10-20	520.27
20-30	784.16
30-40	935.75
40-50	948.14
50-60	840.29
60-70	659.35
70-80	453.81
80-90	279.78
90-100	166.58
100-110	100.41
110-120	61.21
120-130	34.75
130-140	17.56
140-150	7.25
150-160	2.27
160-170	0.33
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

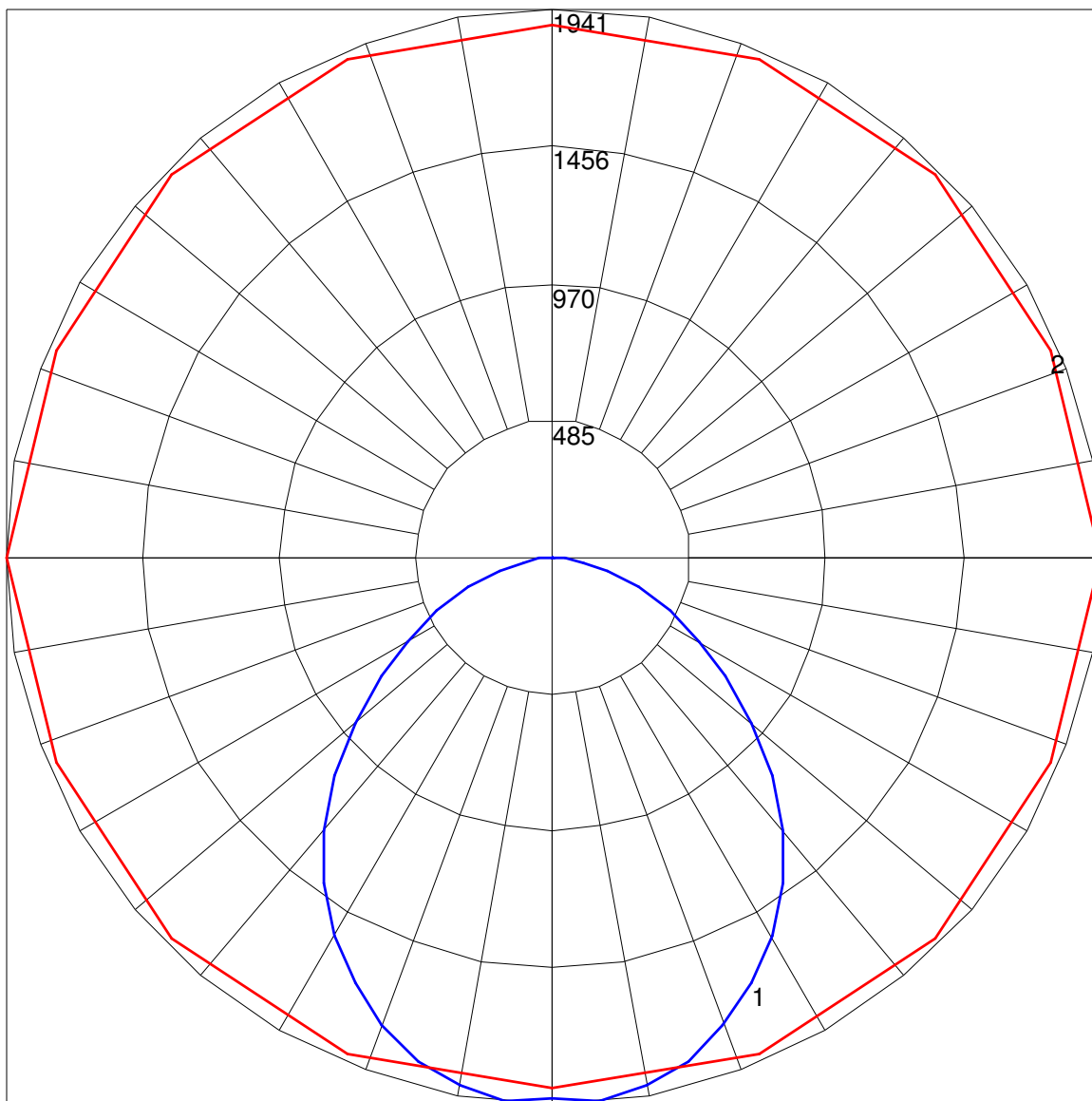
Reflectances

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	19.0	20.5	19.4	20.9	21.4	22.4	23.9	22.8	24.3	24.8
	3H	20.2	21.5	20.6	22.0	22.5	24.6	25.9	25.0	26.4	26.9
	4H	20.5	21.8	21.0	22.3	22.8	25.6	26.9	26.1	27.4	27.9
	6H	20.7	21.9	21.2	22.4	22.9	26.6	27.8	27.2	28.3	28.9
	8H	20.7	21.8	21.2	22.4	22.9	27.2	28.3	27.7	28.8	29.4
	12H	20.7	21.8	21.2	22.3	22.9	27.7	28.8	28.3	29.3	29.9
4H	2H	20.0	21.3	20.5	21.8	22.3	22.7	24.0	23.2	24.5	25.0
	3H	21.5	22.6	22.0	23.1	23.6	25.1	26.2	25.6	26.7	27.3
	4H	21.9	22.9	22.5	23.5	24.1	26.3	27.3	26.8	27.8	28.4
	6H	22.2	23.1	22.8	23.6	24.3	27.5	28.4	28.1	29.0	29.6
	8H	22.3	23.1	22.8	23.7	24.3	28.1	29.0	28.7	29.5	30.1
	12H	22.3	23.0	22.9	23.6	24.3	28.8	29.6	29.4	30.2	30.8
8H	4H	22.7	23.5	23.3	24.1	24.7	26.5	27.3	27.0	27.8	28.5
	6H	23.2	23.9	23.8	24.5	25.1	27.8	28.5	28.4	29.1	29.7
	8H	23.3	23.9	23.9	24.6	25.2	28.6	29.2	29.2	29.8	30.5
	12H	23.4	24.0	24.0	24.6	25.3	29.4	30.0	30.0	30.6	31.3
12H	4H	22.9	23.6	23.5	24.2	24.9	26.4	27.2	27.0	27.8	28.4
	6H	23.5	24.1	24.1	24.7	25.4	27.9	28.5	28.5	29.1	29.8
	8H	23.7	24.3	24.3	24.9	25.6	28.6	29.2	29.3	29.8	30.5

Maximum UGR = 31.3

POLAR GRAPH



Maximum Candela = 1940.88 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.)