

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-835-(L22)-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

[ISSUE DATE] 07-05-2023

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L30-835-(L22)-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	2223
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	15.22
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	7774	6573	6561
55	6416	5625	5776
65	5284	4725	4866
75	3570	3882	3987
85	2095	3335	3269

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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	711.999	711.999	711.999	711.999	711.999
5	719.816	709.280	709.620	707.921	700.784
10	707.921	699.084	700.784	699.764	693.307
15	687.189	680.732	685.490	687.529	680.732
20	655.923	654.223	662.380	665.778	661.700
25	619.218	621.597	633.152	640.969	637.910
30	577.076	580.475	600.186	612.081	611.401
35	525.758	531.875	560.423	577.076	579.455
40	471.041	475.459	511.484	536.633	542.411
45	406.468	417.683	459.146	492.452	500.608
50	339.516	357.529	408.167	444.532	454.728
55	275.284	298.734	355.830	393.893	408.507
60	221.586	243.337	305.531	343.595	358.888
65	170.268	194.058	258.631	293.296	306.550
70	119.290	151.236	214.109	244.357	257.271
75	73.409	114.192	172.987	201.535	212.750
80	40.783	78.847	137.982	164.490	171.627
85	17.333	54.377	110.113	132.884	137.642
90	2.379	37.384	85.304	105.355	111.813
95	0.340	25.489	68.311	83.605	90.402
100	0.000	16.653	53.018	68.311	73.749
105	0.000	11.895	41.123	55.736	60.155
110	0.000	8.157	31.607	45.541	49.279
115	0.000	6.797	25.829	38.064	40.783
120	0.000	5.098	19.712	31.267	33.986
125	0.000	3.059	14.614	24.810	27.868
130	0.000	2.039	10.536	19.372	22.091
135	0.000	1.020	7.817	15.294	17.333
140	0.000	1.020	5.438	11.895	13.594
145	0.000	0.000	3.399	7.477	9.516
150	0.000	0.000	2.379	5.438	6.797
155	0.000	0.000	1.699	2.719	4.418
160	0.000	0.000	0.680	2.039	2.379
165	0.000	0.000	0.000	0.680	1.020
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	260.36	N.A.	11.70
0-30	551.18	N.A.	24.80
0-40	898.22	N.A.	40.40
0-60	1561.5	N.A.	70.20
0-80	1974.34	N.A.	88.80
0-90	2078.1	N.A.	93.50
10-90	2010.69	N.A.	90.50
20-40	637.86	N.A.	28.70
20-50	989.50	N.A.	44.50
40-70	907.81	N.A.	40.80
60-80	412.84	N.A.	18.60
70-80	168.30	N.A.	7.60
80-90	103.76	N.A.	4.70
90-110	99.02	N.A.	4.50
90-120	121.72	N.A.	5.50
90-130	134.61	N.A.	6.10
90-150	143.81	N.A.	6.50
90-180	144.77	N.A.	6.50
110-180	45.75	N.A.	2.10
0-180	2222.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	67.41
10-20	192.95
20-30	290.82
30-40	347.04
40-50	351.64
50-60	311.64
60-70	244.53
70-80	168.30
80-90	103.76
90-100	61.78
100-110	37.24
110-120	22.70
120-130	12.89
130-140	6.51
140-150	2.69
150-160	0.84
160-170	0.12
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

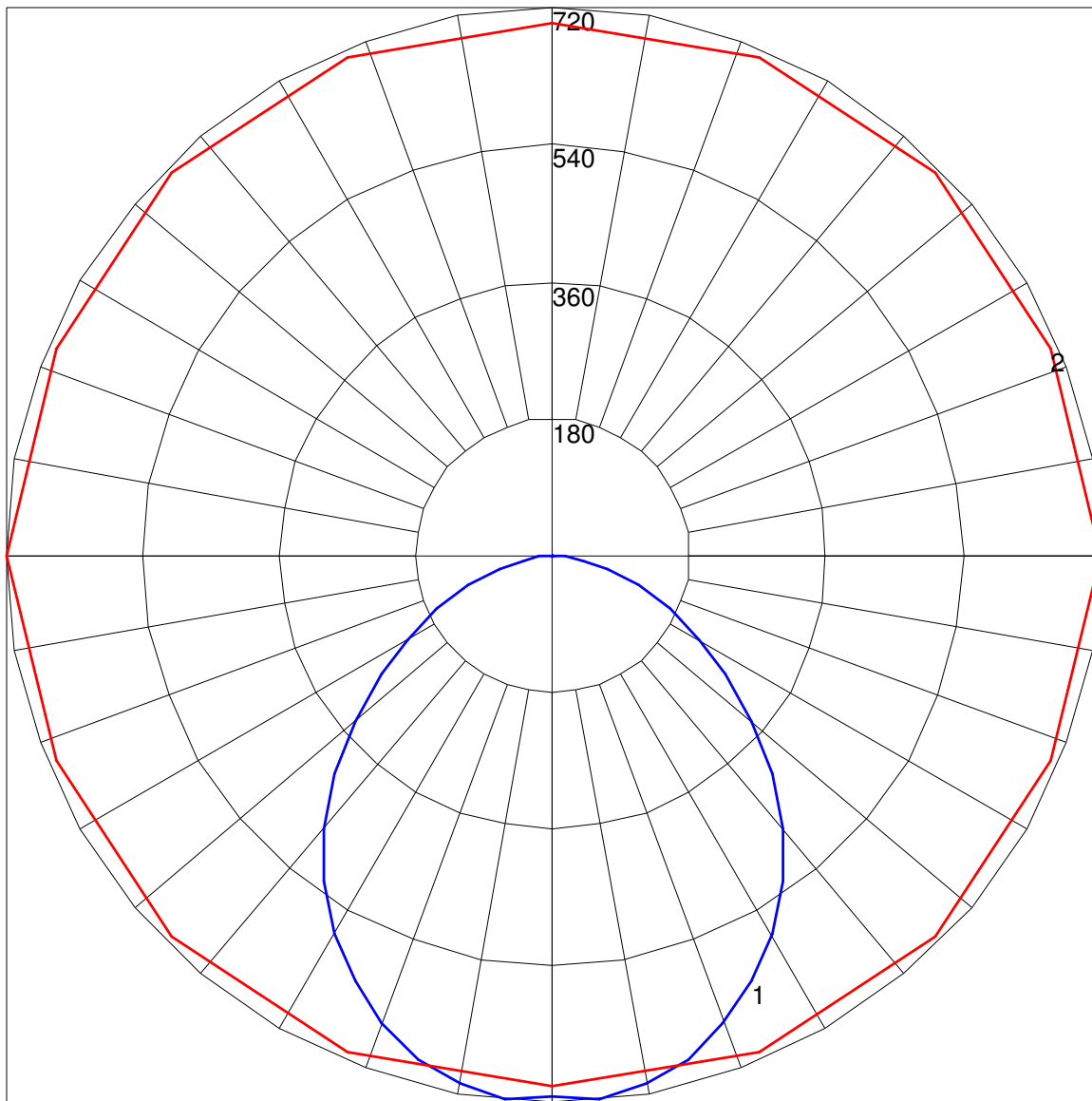
Reflectances

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	15.6	17.1	16.0	17.5	18.0	19.0	20.5	19.4	20.9	21.4
	3H	16.8	18.1	17.2	18.6	19.1	21.2	22.5	21.6	23.0	23.5
	4H	17.1	18.4	17.6	18.9	19.4	22.2	23.5	22.7	24.0	24.5
	6H	17.3	18.5	17.8	19.0	19.5	23.2	24.4	23.8	24.9	25.5
	8H	17.3	18.4	17.8	19.0	19.5	23.8	24.9	24.3	25.4	26.0
	12H	17.3	18.4	17.8	18.9	19.5	24.3	25.4	24.9	25.9	26.5
4H	2H	16.6	17.9	17.1	18.4	18.9	19.3	20.6	19.8	21.1	21.6
	3H	18.1	19.2	18.6	19.7	20.2	21.7	22.8	22.2	23.3	23.9
	4H	18.5	19.5	19.1	20.1	20.7	22.9	23.9	23.4	24.4	25.0
	6H	18.8	19.7	19.4	20.2	20.9	24.1	25.0	24.7	25.6	26.2
	8H	18.9	19.7	19.4	20.3	20.9	24.7	25.6	25.3	26.1	26.7
	12H	18.9	19.6	19.5	20.2	20.9	25.4	26.2	26.0	26.8	27.4
8H	4H	19.3	20.1	19.9	20.7	21.3	23.1	23.9	23.6	24.4	25.1
	6H	19.8	20.5	20.4	21.1	21.7	24.4	25.1	25.0	25.7	26.3
	8H	19.9	20.5	20.5	21.2	21.8	25.2	25.8	25.8	26.4	27.1
	12H	20.0	20.6	20.6	21.2	21.9	26.0	26.6	26.6	27.2	27.9
12H	4H	19.5	20.2	20.1	20.8	21.5	23.0	23.8	23.6	24.4	25.0
	6H	20.1	20.7	20.7	21.3	22.0	24.5	25.1	25.1	25.7	26.4
	8H	20.3	20.9	20.9	21.5	22.2	25.2	25.8	25.9	26.4	27.1

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 719.816 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.)