



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-835-(L18)-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] 10-05-2021

[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-(L18)-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	1822
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	11.9
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	6372	5387	5378
55	5259	4610	4734
65	4331	3873	3988
75	2926	3182	3268
85	1717	2733	2680

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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	583.564	583.564	583.564	583.564	583.564
5	589.970	581.335	581.614	580.221	574.372
10	580.221	572.979	574.372	573.536	568.243
15	563.230	557.937	561.837	563.508	557.937
20	537.603	536.210	542.895	545.681	542.338
25	507.519	509.469	518.940	525.347	522.840
30	472.979	475.765	491.921	501.670	501.113
35	430.918	435.932	459.330	472.979	474.929
40	386.071	389.692	419.219	439.832	444.567
45	333.147	342.339	376.322	403.620	410.305
50	278.272	293.035	334.539	364.344	372.701
55	225.626	244.846	291.643	322.840	334.818
60	181.615	199.442	250.417	281.615	294.150
65	139.554	159.052	211.977	240.389	251.253
70	97.771	123.955	175.487	200.278	210.863
75	60.167	93.593	141.782	165.181	174.373
80	33.426	64.624	113.092	134.819	140.668
85	14.206	44.568	90.250	108.913	112.813
90	1.950	30.641	69.916	86.351	91.643
95	0.279	20.891	55.989	68.523	74.094
100	0.000	13.649	43.454	55.989	60.446
105	0.000	9.749	33.705	45.682	49.303
110	0.000	6.685	25.905	37.326	40.390
115	0.000	5.571	21.170	31.198	33.426
120	0.000	4.178	16.156	25.627	27.855
125	0.000	2.507	11.978	20.334	22.841
130	0.000	1.671	8.635	15.877	18.106
135	0.000	0.836	6.407	12.535	14.206
140	0.000	0.836	4.457	9.749	11.142
145	0.000	0.000	2.786	6.128	7.799
150	0.000	0.000	1.950	4.457	5.571
155	0.000	0.000	1.393	2.228	3.621
160	0.000	0.000	0.557	1.671	1.950
165	0.000	0.000	0.000	0.557	0.836
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	213.39	N.A.	11.70
0-30	451.76	N.A.	24.80
0-40	736.19	N.A.	40.40
0-60	1279.82	N.A.	70.20
0-80	1618.19	N.A.	88.80
0-90	1703.24	N.A.	93.50
10-90	1647.99	N.A.	90.50
20-40	522.80	N.A.	28.70
20-50	811.01	N.A.	44.50
40-70	744.05	N.A.	40.80
60-80	338.37	N.A.	18.60
70-80	137.94	N.A.	7.60
80-90	85.04	N.A.	4.70
90-110	81.16	N.A.	4.50
90-120	99.76	N.A.	5.50
90-130	110.33	N.A.	6.10
90-150	117.87	N.A.	6.50
90-180	118.66	N.A.	6.50
110-180	37.50	N.A.	2.10
0-180	1821.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.25
10-20	158.15
20-30	238.36
30-40	284.44
40-50	288.21
50-60	255.42
60-70	200.42
70-80	137.94
80-90	85.04
90-100	50.64
100-110	30.52
110-120	18.61
120-130	10.56
130-140	5.34
140-150	2.20
150-160	0.69
160-170	0.10
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

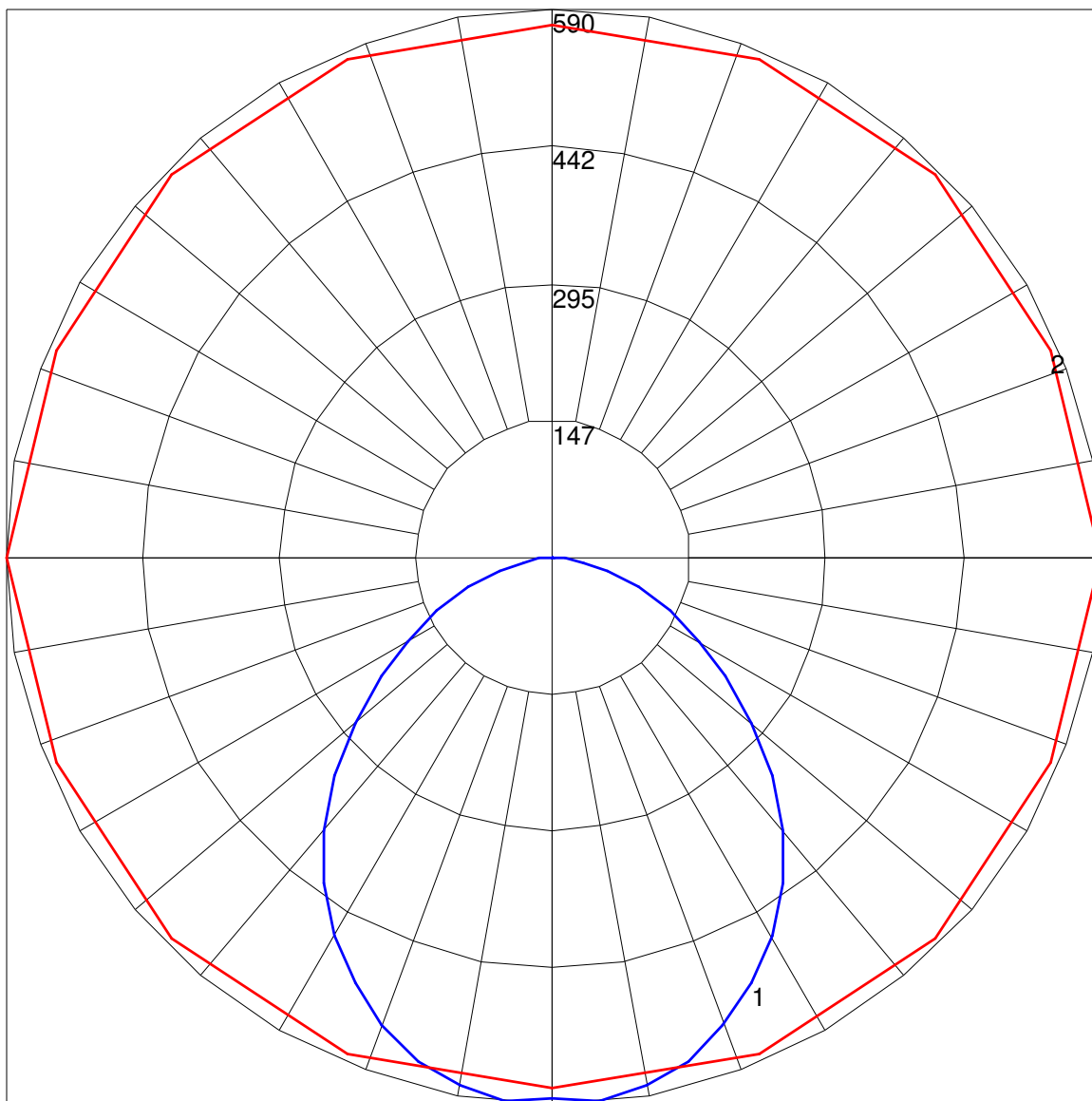
Reflectances

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	14.9	16.4	15.3	16.8	17.3	18.3	19.7	18.7	20.2	20.7
	3H	16.1	17.4	16.5	17.9	18.4	20.5	21.8	20.9	22.3	22.8
	4H	16.4	17.7	16.9	18.2	18.7	21.5	22.8	22.0	23.3	23.8
	6H	16.6	17.8	17.1	18.3	18.8	22.5	23.7	23.1	24.2	24.8
	8H	16.6	17.7	17.1	18.3	18.8	23.1	24.2	23.6	24.7	25.3
	12H	16.6	17.7	17.1	18.2	18.8	23.6	24.7	24.2	25.2	25.8
4H	2H	15.9	17.2	16.4	17.7	18.2	18.6	19.9	19.1	20.3	20.9
	3H	17.4	18.5	17.9	19.0	19.5	21.0	22.1	21.5	22.6	23.2
	4H	17.8	18.8	18.4	19.4	20.0	22.2	23.2	22.7	23.7	24.3
	6H	18.1	19.0	18.7	19.5	20.2	23.4	24.3	24.0	24.9	25.5
	8H	18.2	19.0	18.7	19.6	20.2	24.0	24.9	24.6	25.4	26.0
	12H	18.2	18.9	18.8	19.5	20.2	24.7	25.5	25.3	26.1	26.7
8H	4H	18.6	19.4	19.2	20.0	20.6	22.3	23.2	22.9	23.7	24.4
	6H	19.1	19.8	19.7	20.4	21.0	23.7	24.4	24.3	25.0	25.6
	8H	19.2	19.8	19.8	20.5	21.1	24.5	25.1	25.1	25.7	26.4
	12H	19.3	19.9	19.9	20.5	21.2	25.3	25.9	25.9	26.5	27.2
12H	4H	18.8	19.5	19.4	20.1	20.8	22.3	23.1	22.9	23.7	24.3
	6H	19.4	20.0	20.0	20.6	21.3	23.8	24.4	24.4	25.0	25.6
	8H	19.6	20.2	20.2	20.8	21.5	24.5	25.1	25.2	25.7	26.4

Maximum UGR = 27.2

POLAR GRAPH



Maximum Candela = 589.97 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.)