



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L30-835-(L26)-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-(L26)-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	2710
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	157
Total Luminaire Watts	17.3
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	9477	8013	7999
55	7821	6857	7042
65	6442	5760	5932
75	4353	4733	4861
85	2554	4065	3986

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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	867.979	867.979	867.979	867.979	867.979
5	877.508	864.664	865.079	863.007	854.307
10	863.007	852.235	854.307	853.064	845.192
15	837.734	829.862	835.663	838.149	829.862
20	799.618	797.546	807.490	811.633	806.661
25	754.872	757.772	771.859	781.388	777.659
30	703.498	707.641	731.671	746.172	745.343
35	640.937	648.395	683.197	703.498	706.398
40	574.233	579.619	623.536	654.195	661.238
45	495.514	509.187	559.732	600.335	610.278
50	413.895	435.854	497.586	541.917	554.346
55	335.591	364.178	433.782	480.185	498.000
60	270.130	296.646	372.464	418.867	437.511
65	207.569	236.571	315.290	357.549	373.707
70	145.423	184.368	261.015	297.889	313.632
75	89.491	139.208	210.884	245.686	259.358
80	49.717	96.120	168.210	200.526	209.226
85	21.130	66.290	134.236	161.995	167.795
90	2.900	45.574	103.992	128.436	136.308
95	0.414	31.073	83.276	101.920	110.206
100	0.000	20.301	64.632	83.276	89.905
105	0.000	14.501	50.131	67.947	73.333
110	0.000	9.943	38.531	55.518	60.075
115	0.000	8.286	31.488	46.403	49.717
120	0.000	6.215	24.030	38.116	41.431
125	0.000	3.729	17.815	30.245	33.973
130	0.000	2.486	12.844	23.616	26.930
135	0.000	1.243	9.529	18.644	21.130
140	0.000	1.243	6.629	14.501	16.572
145	0.000	0.000	4.143	9.115	11.601
150	0.000	0.000	2.900	6.629	8.286
155	0.000	0.000	2.072	3.314	5.386
160	0.000	0.000	0.829	2.486	2.900
165	0.000	0.000	0.000	0.829	1.243
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	317.40	N.A.	11.70
0-30	671.93	N.A.	24.80
0-40	1095.00	N.A.	40.40
0-60	1903.58	N.A.	70.20
0-80	2406.86	N.A.	88.80
0-90	2533.35	N.A.	93.50
10-90	2451.18	N.A.	90.50
20-40	777.60	N.A.	28.70
20-50	1206.27	N.A.	44.50
40-70	1106.69	N.A.	40.80
60-80	503.28	N.A.	18.60
70-80	205.18	N.A.	7.60
80-90	126.49	N.A.	4.70
90-110	120.71	N.A.	4.50
90-120	148.39	N.A.	5.50
90-130	164.10	N.A.	6.10
90-150	175.31	N.A.	6.50
90-180	176.49	N.A.	6.50
110-180	55.77	N.A.	2.10
0-180	2709.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	82.17
10-20	235.22
20-30	354.53
30-40	423.07
40-50	428.67
50-60	379.91
60-70	298.10
70-80	205.18
80-90	126.49
90-100	75.31
100-110	45.40
110-120	27.67
120-130	15.71
130-140	7.94
140-150	3.28
150-160	1.02
160-170	0.15
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

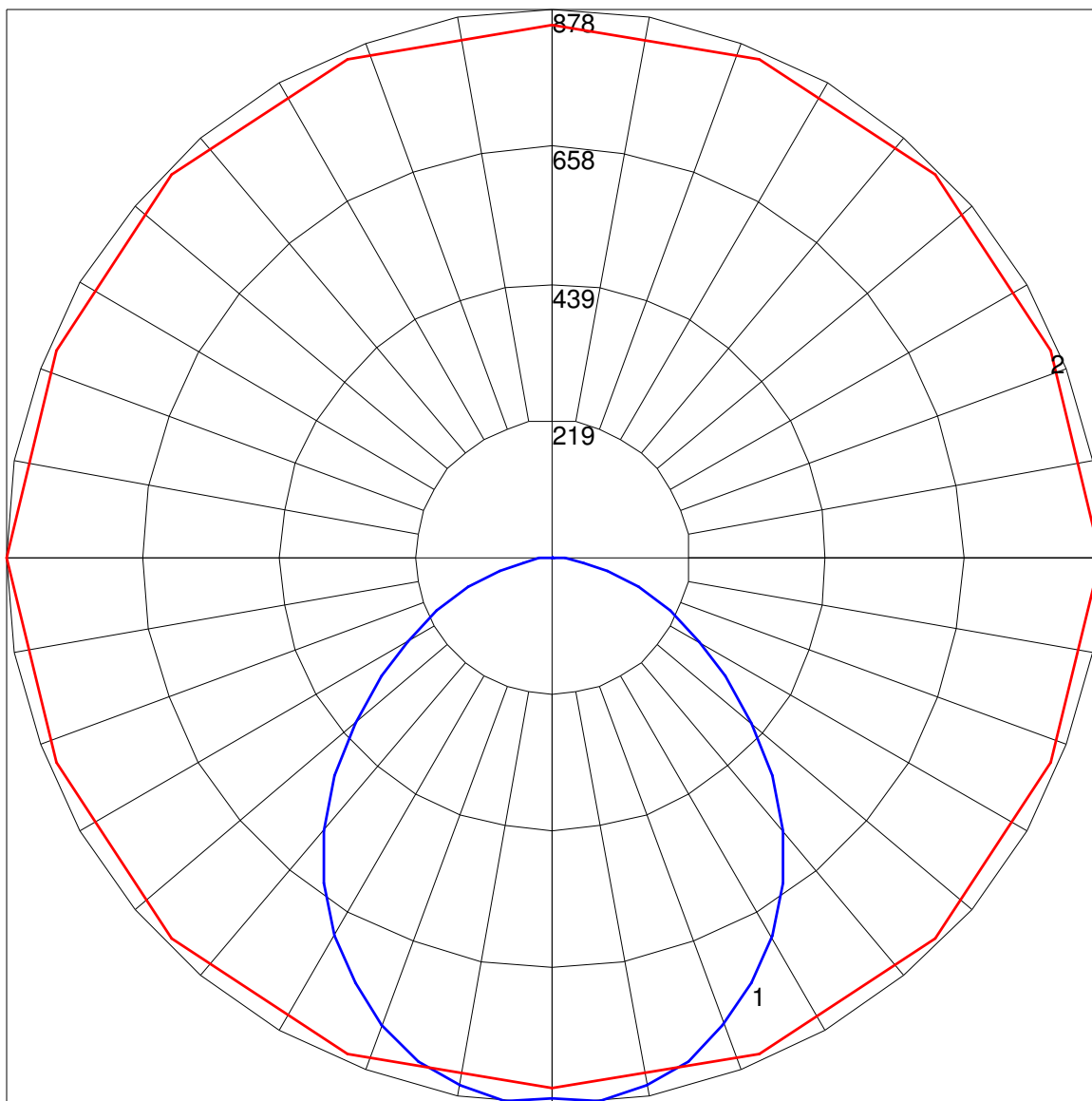
Reflectances

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	16.3	17.8	16.7	18.2	18.7	19.7	21.2	20.1	21.6	22.1
	3H	17.5	18.8	17.9	19.3	19.8	21.9	23.2	22.3	23.7	24.2
	4H	17.8	19.1	18.3	19.6	20.1	22.9	24.2	23.4	24.7	25.2
	6H	18.0	19.2	18.5	19.7	20.2	23.9	25.1	24.5	25.6	26.2
	8H	18.0	19.1	18.5	19.7	20.2	24.5	25.6	25.0	26.1	26.7
	12H	18.0	19.1	18.5	19.6	20.2	25.0	26.1	25.6	26.6	27.2
4H	2H	17.3	18.6	17.8	19.1	19.6	20.0	21.3	20.5	21.8	22.3
	3H	18.8	19.9	19.3	20.4	20.9	22.4	23.5	22.9	24.0	24.6
	4H	19.2	20.2	19.8	20.8	21.4	23.6	24.6	24.1	25.1	25.7
	6H	19.5	20.4	20.1	20.9	21.6	24.8	25.7	25.4	26.3	26.9
	8H	19.6	20.4	20.1	21.0	21.6	25.4	26.3	26.0	26.8	27.4
	12H	19.6	20.3	20.2	20.9	21.6	26.1	26.9	26.7	27.5	28.1
8H	4H	20.0	20.8	20.6	21.4	22.0	23.8	24.6	24.3	25.1	25.8
	6H	20.5	21.2	21.1	21.8	22.4	25.1	25.8	25.7	26.4	27.0
	8H	20.6	21.2	21.2	21.9	22.5	25.9	26.5	26.5	27.1	27.8
	12H	20.7	21.3	21.3	21.9	22.6	26.7	27.3	27.3	27.9	28.6
12H	4H	20.2	20.9	20.8	21.5	22.2	23.7	24.5	24.3	25.1	25.7
	6H	20.8	21.4	21.4	22.0	22.7	25.2	25.8	25.8	26.4	27.1
	8H	21.0	21.6	21.6	22.2	22.9	25.9	26.5	26.6	27.1	27.8

Maximum UGR = 28.6

POLAR GRAPH



Maximum Candela = 877.508 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.)