



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L42-930-DRV-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] 2022-02-25

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22.5 INCH LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-2-L42-930-DRV-UNV

[LAMPCAT] HLM LED BOARD

[_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	3381
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	31.4
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)	1.88 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	22845	19556	19798
55	18654	16671	17429
65	15103	13934	14683
75	9857	11370	12031
85	5105	9654	9865

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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	1083.110	1083.110	1083.110	1083.110	1083.110
5	1095.000	1078.974	1079.491	1076.906	1066.049
10	1076.906	1063.464	1066.049	1064.498	1054.675
15	1045.369	1035.546	1042.784	1045.886	1035.546
20	997.805	995.220	1007.628	1012.798	1006.594
25	941.969	945.588	963.166	975.057	970.404
30	877.862	883.032	913.017	931.112	930.078
35	799.795	809.101	852.529	877.862	881.481
40	716.558	723.279	778.081	816.339	825.128
45	618.329	635.390	698.463	749.129	761.537
50	516.480	543.881	620.914	676.233	691.743
55	418.768	454.441	541.296	599.200	621.431
60	337.082	370.170	464.781	522.684	545.949
65	259.016	295.206	393.435	446.169	466.332
70	181.466	230.064	325.708	371.721	391.367
75	111.671	173.711	263.152	306.579	323.640
80	62.040	119.943	209.901	250.227	261.084
85	26.367	82.720	167.507	202.146	209.384
90	3.619	56.870	129.766	160.269	170.092
95	0.517	38.775	103.916	127.181	137.521
100	0.000	25.333	80.652	103.916	112.188
105	0.000	18.095	62.557	84.788	91.509
110	0.000	12.408	48.081	69.278	74.965
115	0.000	10.340	39.292	57.904	62.040
120	0.000	7.755	29.986	47.564	51.700
125	0.000	4.653	22.231	37.741	42.394
130	0.000	3.102	16.027	29.469	33.605
135	0.000	1.551	11.891	23.265	26.367
140	0.000	1.551	8.272	18.095	20.680
145	0.000	0.000	5.170	11.374	14.476
150	0.000	0.000	3.619	8.272	10.340
155	0.000	0.000	2.585	4.136	6.721
160	0.000	0.000	1.034	3.102	3.619
165	0.000	0.000	0.000	1.034	1.551
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	396.06	N.A.	11.70
0-30	838.47	N.A.	24.80
0-40	1366.4	N.A.	40.40
0-60	2375.39	N.A.	70.20
0-80	3003.41	N.A.	88.80
0-90	3161.25	N.A.	93.50
10-90	3058.71	N.A.	90.50
20-40	970.33	N.A.	28.70
20-50	1505.25	N.A.	44.50
40-70	1380.98	N.A.	40.80
60-80	628.02	N.A.	18.60
70-80	256.03	N.A.	7.60
80-90	157.84	N.A.	4.70
90-110	150.63	N.A.	4.50
90-120	185.16	N.A.	5.50
90-130	204.77	N.A.	6.10
90-150	218.76	N.A.	6.50
90-180	220.23	N.A.	6.50
110-180	69.60	N.A.	2.10
0-180	3381.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	102.54
10-20	293.52
20-30	442.41
30-40	527.93
40-50	534.92
50-60	474.07
60-70	371.99
70-80	256.03
80-90	157.84
90-100	93.98
100-110	56.65
110-120	34.53
120-130	19.60
130-140	9.90
140-150	4.09
150-160	1.28
160-170	0.19
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
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	61	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	49	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

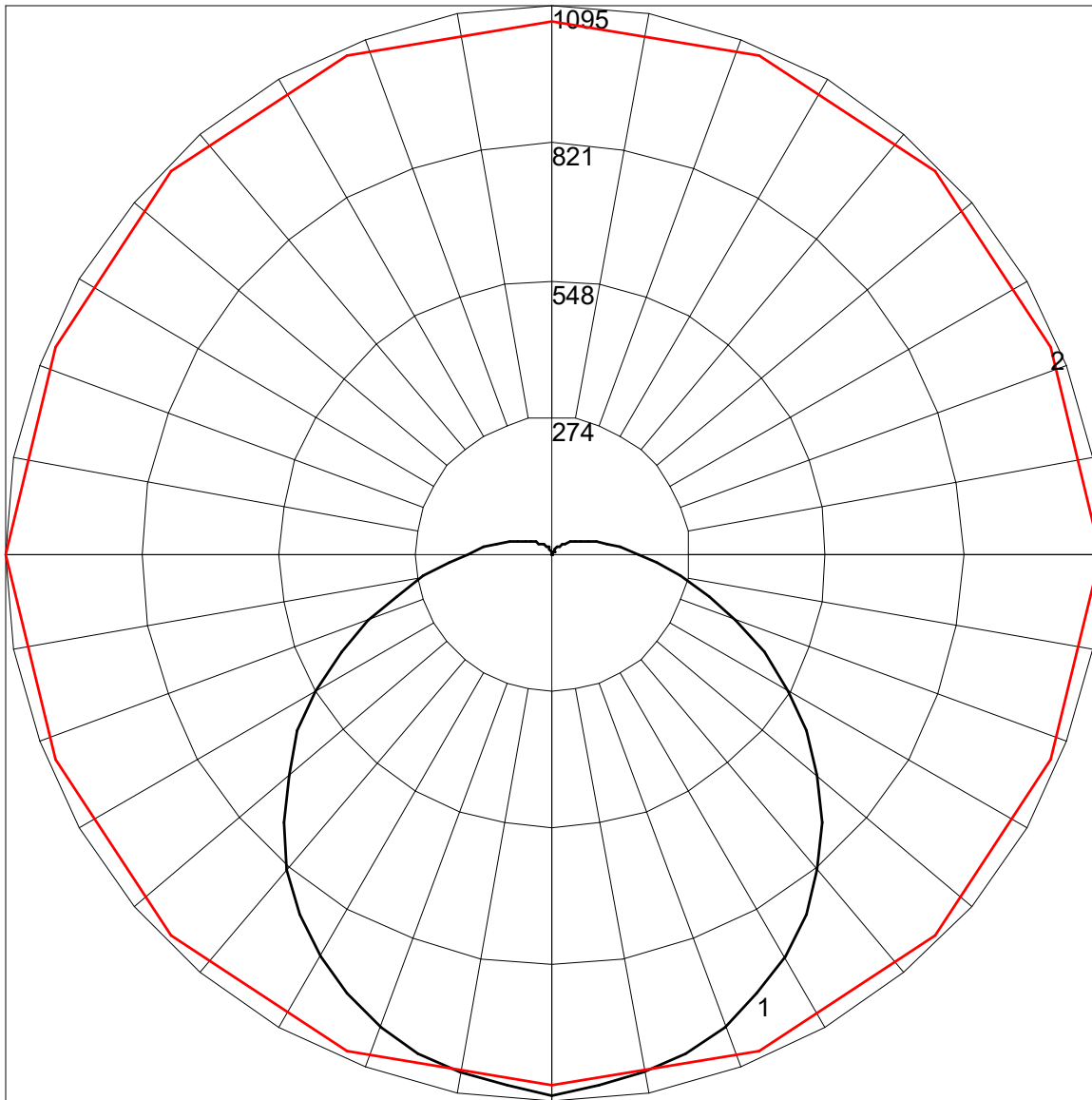
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UGR TABLE - CORRECTED

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	19.3	20.8	19.8	21.3	21.7	22.6	24.1	23.1	24.6	25.1
	3H	20.5	21.9	21.0	22.3	22.9	24.8	26.2	25.3	26.6	27.1
	4H	20.9	22.1	21.4	22.6	23.2	25.8	27.1	26.3	27.6	28.1
	6H	21.0	22.2	21.5	22.7	23.3	26.8	28.0	27.3	28.5	29.1
	8H	21.1	22.2	21.6	22.7	23.3	27.3	28.4	27.8	29.0	29.5
	12H	21.1	22.2	21.6	22.7	23.3	27.8	28.9	28.4	29.4	30.0
4H	2H	20.4	21.7	20.9	22.1	22.7	23.0	24.2	23.5	24.7	25.3
	3H	21.8	22.9	22.3	23.4	24.0	25.3	26.4	25.9	27.0	27.5
	4H	22.3	23.3	22.8	23.8	24.4	26.5	27.5	27.0	28.0	28.6
	6H	22.6	23.4	23.1	24.0	24.6	27.7	28.6	28.3	29.1	29.7
	8H	22.6	23.4	23.2	24.0	24.6	28.3	29.1	28.9	29.7	30.3
	12H	22.6	23.4	23.2	24.0	24.6	28.9	29.7	29.5	30.3	30.9
8H	4H	23.0	23.8	23.6	24.4	25.0	26.7	27.5	27.2	28.1	28.7
	6H	23.5	24.2	24.1	24.8	25.4	28.0	28.7	28.6	29.3	29.9
	8H	23.6	24.3	24.3	24.9	25.5	28.7	29.3	29.3	30.0	30.6
	12H	23.7	24.3	24.3	24.9	25.6	29.5	30.1	30.1	30.7	31.4
12H	4H	23.2	24.0	23.8	24.5	25.2	26.7	27.4	27.3	28.0	28.6
	6H	23.8	24.4	24.4	25.0	25.7	28.0	28.7	28.7	29.2	29.9
	8H	24.0	24.6	24.6	25.2	25.9	28.8	29.4	29.4	30.0	30.7

Maximum UGR = 31.4

POLAR GRAPH



Maximum Candela = 1095 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)