



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-2-L32-930-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] 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-L32-930-DIM-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	2407
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	21.3
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)	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	16264	13922	14095
55	13280	11868	12408
65	10752	9920	10453
75	7017	8094	8565
85	3634	6873	7023

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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	771.098	771.098	771.098	771.098	771.098
5	779.564	768.154	768.522	766.682	758.952
10	766.682	757.112	758.952	757.848	750.855
15	744.229	737.236	742.389	744.598	737.236
20	710.367	708.527	717.361	721.041	716.625
25	670.616	673.193	685.707	694.173	690.860
30	624.976	628.657	650.005	662.887	662.151
35	569.398	576.023	606.941	624.976	627.553
40	510.139	514.924	553.939	581.176	587.433
45	440.207	452.353	497.257	533.328	542.161
50	367.698	387.205	442.047	481.430	492.472
55	298.133	323.530	385.365	426.589	442.415
60	239.979	263.535	330.891	372.115	388.678
65	184.401	210.166	280.098	317.641	331.996
70	129.191	163.789	231.882	264.639	278.626
75	79.502	123.670	187.346	218.263	230.409
80	44.168	85.391	149.435	178.144	185.873
85	18.771	58.891	119.253	143.914	149.067
90	2.576	40.487	92.385	114.100	121.094
95	0.368	27.605	73.981	90.544	97.906
100	0.000	18.035	57.418	73.981	79.870
105	0.000	12.882	44.536	60.363	65.148
110	0.000	8.834	34.230	49.321	53.370
115	0.000	7.361	27.973	41.223	44.168
120	0.000	5.521	21.348	33.862	36.807
125	0.000	3.313	15.827	26.869	30.181
130	0.000	2.208	11.410	20.980	23.924
135	0.000	1.104	8.466	16.563	18.771
140	0.000	1.104	5.889	12.882	14.723
145	0.000	0.000	3.681	8.097	10.306
150	0.000	0.000	2.576	5.889	7.361
155	0.000	0.000	1.840	2.945	4.785
160	0.000	0.000	0.736	2.208	2.576
165	0.000	0.000	0.000	0.736	1.104
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	281.97	N.A.	11.70
0-30	596.93	N.A.	24.80
0-40	972.78	N.A.	40.40
0-60	1691.11	N.A.	70.20
0-80	2138.22	N.A.	88.80
0-90	2250.59	N.A.	93.50
10-90	2177.59	N.A.	90.50
20-40	690.81	N.A.	28.70
20-50	1071.63	N.A.	44.50
40-70	983.16	N.A.	40.80
60-80	447.11	N.A.	18.60
70-80	182.27	N.A.	7.60
80-90	112.37	N.A.	4.70
90-110	107.24	N.A.	4.50
90-120	131.82	N.A.	5.50
90-130	145.78	N.A.	6.10
90-150	155.74	N.A.	6.50
90-180	156.79	N.A.	6.50
110-180	49.55	N.A.	2.10
0-180	2407.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	73.00
10-20	208.97
20-30	314.96
30-40	375.85
40-50	380.83
50-60	337.51
60-70	264.83
70-80	182.27
80-90	112.37
90-100	66.91
100-110	40.33
110-120	24.59
120-130	13.96
130-140	7.05
140-150	2.91
150-160	0.91
160-170	0.13
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

X=2H	Y=2H	18.2	19.7	18.7	20.2	20.7	21.5	23.0	22.0	23.5	24.0
	3H	19.4	20.8	19.9	21.2	21.8	23.7	25.1	24.2	25.5	26.1
	4H	19.8	21.0	20.3	21.5	22.1	24.7	26.0	25.2	26.5	27.0
	6H	19.9	21.1	20.5	21.6	22.2	25.7	26.9	26.2	27.4	28.0
	8H	20.0	21.1	20.5	21.6	22.2	26.2	27.3	26.7	27.9	28.4
	12H	20.0	21.1	20.5	21.6	22.2	26.7	27.8	27.3	28.3	28.9

UGR Viewed Endwise

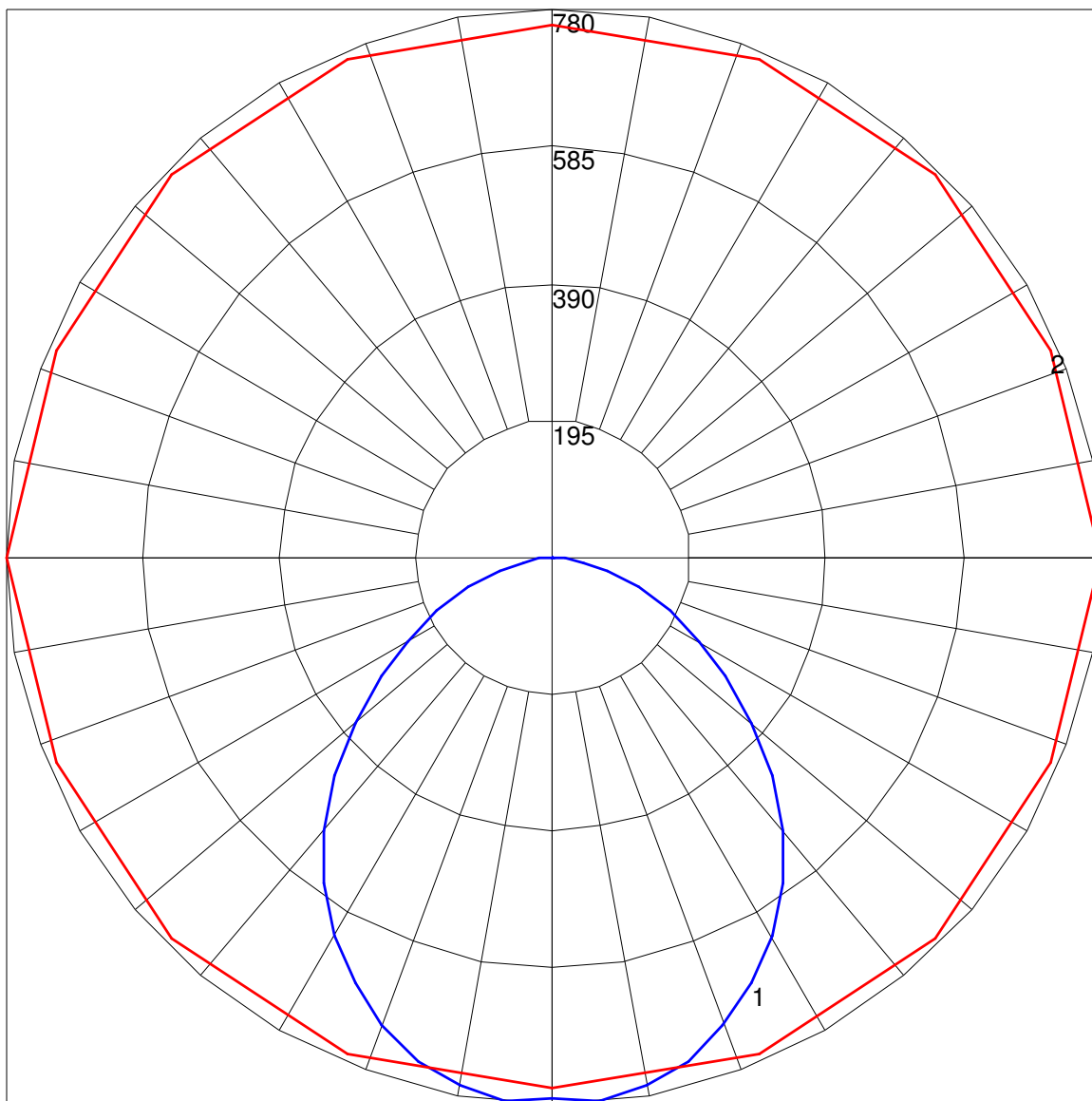
4H	2H	19.3	20.6	19.8	21.0	21.6	21.9	23.1	22.4	23.6	24.2
	3H	20.7	21.8	21.2	22.3	22.9	24.2	25.3	24.8	25.9	26.4
	4H	21.2	22.2	21.7	22.7	23.3	25.4	26.4	25.9	26.9	27.5
	6H	21.5	22.3	22.0	22.9	23.5	26.6	27.5	27.2	28.0	28.6
	8H	21.5	22.3	22.1	22.9	23.5	27.2	28.0	27.8	28.6	29.2
	12H	21.5	22.3	22.1	22.9	23.5	27.8	28.6	28.4	29.2	29.8

8H	4H	21.9	22.7	22.5	23.3	23.9	25.6	26.4	26.1	27.0	27.6
	6H	22.4	23.1	23.0	23.7	24.3	26.9	27.6	27.5	28.2	28.8
	8H	22.5	23.2	23.2	23.8	24.4	27.6	28.2	28.2	28.9	29.5
	12H	22.6	23.2	23.2	23.8	24.5	28.4	29.0	29.0	29.6	30.3

12H	4H	22.1	22.9	22.7	23.4	24.1	25.6	26.3	26.2	26.9	27.5
	6H	22.7	23.3	23.3	23.9	24.6	26.9	27.6	27.6	28.1	28.8
	8H	22.9	23.5	23.5	24.1	24.8	27.7	28.3	28.3	28.9	29.6

Maximum UGR = 30.3

POLAR GRAPH



Maximum Candela = 779.564 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.)