



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75R-2-L25-840-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-L25-840-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	2544
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	18.2
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	17187	14712	14894
55	14034	12542	13112
65	11362	10482	11046
75	7415	8553	9051
85	3841	7263	7422

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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	814.843	814.843	814.843	814.843	814.843
5	823.789	811.732	812.121	810.176	802.008
10	810.176	800.063	802.008	800.841	793.451
15	786.450	779.060	784.506	786.839	779.060
20	750.667	748.722	758.057	761.947	757.279
25	708.661	711.384	724.608	733.553	730.053
30	660.432	664.321	686.880	700.493	699.715
35	601.701	608.702	641.373	660.432	663.154
40	539.080	544.136	585.365	614.147	620.759
45	465.180	478.016	525.467	563.584	572.919
50	388.558	409.172	467.125	508.742	520.411
55	315.047	341.884	407.227	450.789	467.514
60	253.593	278.486	349.663	393.225	410.728
65	194.862	222.089	295.988	335.661	350.830
70	136.520	173.081	245.036	279.653	294.433
75	84.012	130.686	197.974	230.645	243.481
80	46.674	90.236	157.912	188.250	196.418
85	19.836	62.231	126.019	152.078	157.523
90	2.723	42.784	97.626	120.573	127.963
95	0.389	29.171	78.178	95.681	103.460
100	0.000	19.058	60.676	78.178	84.401
105	0.000	13.613	47.063	63.787	68.844
110	0.000	9.335	36.172	52.119	56.397
115	0.000	7.779	29.560	43.562	46.674
120	0.000	5.834	22.559	35.783	38.895
125	0.000	3.501	16.725	28.393	31.894
130	0.000	2.334	12.057	22.170	25.282
135	0.000	1.167	8.946	17.503	19.836
140	0.000	1.167	6.223	13.613	15.558
145	0.000	0.000	3.889	8.557	10.891
150	0.000	0.000	2.723	6.223	7.779
155	0.000	0.000	1.945	3.112	5.056
160	0.000	0.000	0.778	2.334	2.723
165	0.000	0.000	0.000	0.778	1.167
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	297.97	N.A.	11.70
0-30	630.80	N.A.	24.80
0-40	1027.96	N.A.	40.40
0-60	1787.05	N.A.	70.20
0-80	2259.52	N.A.	88.80
0-90	2378.27	N.A.	93.50
10-90	2301.12	N.A.	90.50
20-40	730.00	N.A.	28.70
20-50	1132.43	N.A.	44.50
40-70	1038.94	N.A.	40.80
60-80	472.47	N.A.	18.60
70-80	192.62	N.A.	7.60
80-90	118.75	N.A.	4.70
90-110	113.32	N.A.	4.50
90-120	139.30	N.A.	5.50
90-130	154.05	N.A.	6.10
90-150	164.58	N.A.	6.50
90-180	165.68	N.A.	6.50
110-180	52.36	N.A.	2.10
0-180	2543.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	77.14
10-20	220.82
20-30	332.83
30-40	397.17
40-50	402.43
50-60	356.65
60-70	279.85
70-80	192.62
80-90	118.75
90-100	70.70
100-110	42.62
110-120	25.98
120-130	14.75
130-140	7.45
140-150	3.08
150-160	0.96
160-170	0.14
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

X=2H	Y=2H	18.3	19.8	18.8	20.3	20.7	21.6	23.1	22.1	23.6	24.1
	3H	19.5	20.9	20.0	21.3	21.9	23.8	25.2	24.3	25.6	26.1
	4H	19.9	21.1	20.4	21.6	22.2	24.8	26.1	25.3	26.6	27.1
	6H	20.0	21.2	20.6	21.7	22.3	25.8	27.0	26.3	27.5	28.1
	8H	20.1	21.2	20.6	21.7	22.3	26.3	27.4	26.8	28.0	28.5
	12H	20.1	21.2	20.6	21.7	22.3	26.8	27.9	27.4	28.4	29.0

UGR Viewed Endwise

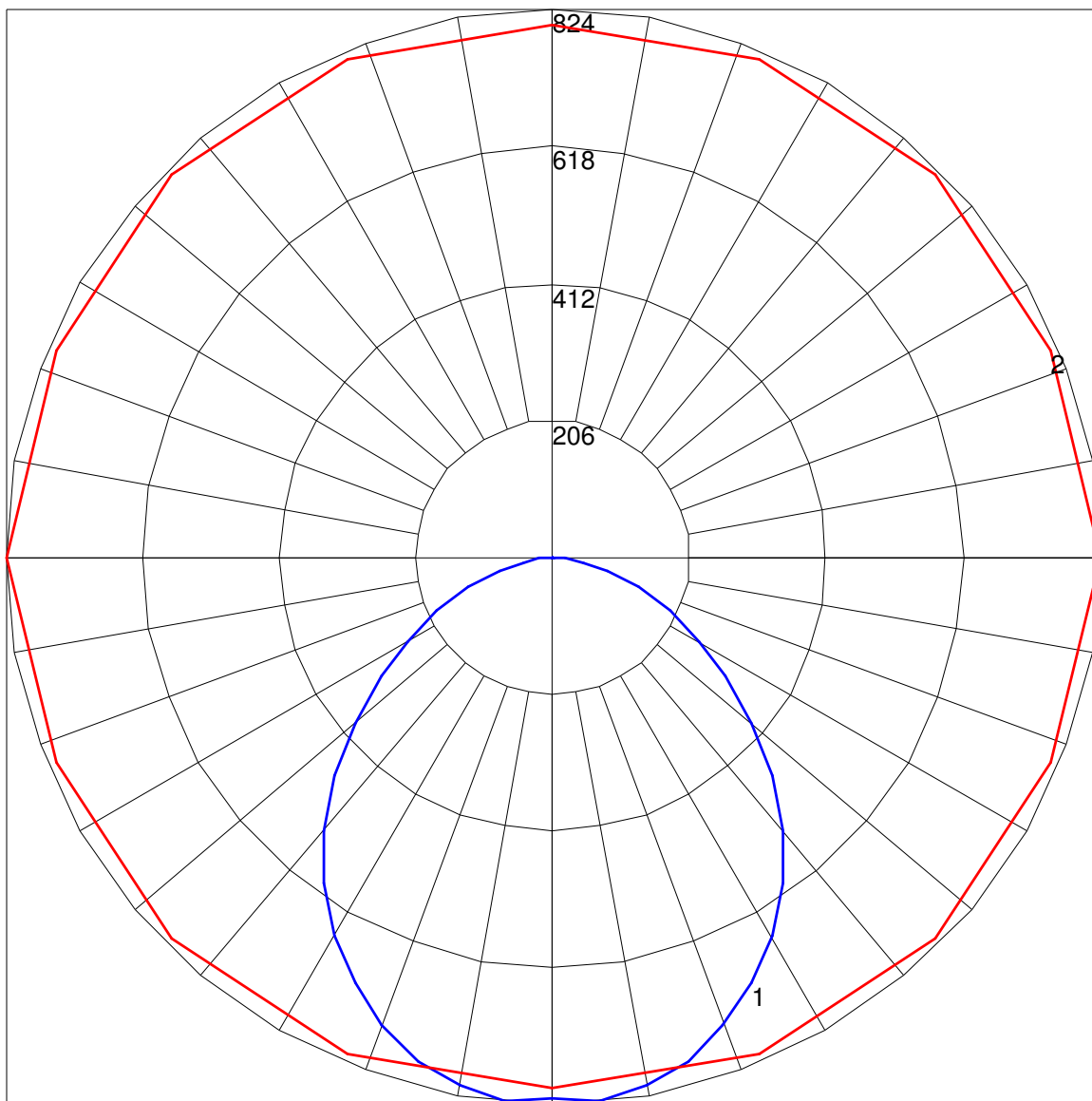
4H	2H	19.4	20.7	19.9	21.1	21.7	22.0	23.2	22.5	23.7	24.3
	3H	20.8	21.9	21.3	22.4	23.0	24.3	25.4	24.9	26.0	26.5
	4H	21.3	22.3	21.8	22.8	23.4	25.5	26.5	26.0	27.0	27.6
	6H	21.6	22.4	22.1	23.0	23.6	26.7	27.6	27.3	28.1	28.7
	8H	21.6	22.4	22.2	23.0	23.6	27.3	28.1	27.9	28.7	29.3
	12H	21.6	22.4	22.2	23.0	23.6	27.9	28.7	28.5	29.3	29.9

8H	4H	22.0	22.8	22.6	23.4	24.0	25.7	26.5	26.2	27.1	27.7
	6H	22.5	23.2	23.1	23.8	24.4	27.0	27.7	27.6	28.3	28.9
	8H	22.6	23.3	23.3	23.9	24.5	27.7	28.3	28.3	29.0	29.6
	12H	22.7	23.3	23.3	23.9	24.6	28.5	29.1	29.1	29.7	30.4

12H	4H	22.2	23.0	22.8	23.5	24.2	25.7	26.4	26.3	27.0	27.6
	6H	22.8	23.4	23.4	24.0	24.7	27.0	27.7	27.7	28.2	28.9
	8H	23.0	23.6	23.6	24.2	24.9	27.8	28.4	28.4	29.0	29.7

Maximum UGR = 30.4

POLAR GRAPH



Maximum Candela = 823.789 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.)