



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 75S-2-L15-835-DRV-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] BALLABS TEST NO. 19745.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUE DATE] 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 SQUARE LENS
 [LUMCAT] 75S-2-L15-835-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	1511
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	10.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.88 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10566	8606	8234
55	8880	7189	7378
65	6876	6114	6702
75	4600	4963	5946
85	1842	4158	5213

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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	509.821	509.821	509.821	509.821	509.821
5	514.206	507.744	507.513	506.359	500.359
10	505.436	499.666	500.128	498.743	493.204
15	491.358	485.819	487.203	485.819	481.203
20	467.817	463.663	467.817	465.740	460.893
25	438.737	437.121	440.814	440.583	433.429
30	406.657	407.349	411.503	411.503	402.733
35	367.422	372.961	375.038	375.731	366.730
40	324.725	333.034	331.188	334.880	330.264
45	282.952	290.337	289.876	296.569	295.415
50	240.255	246.948	252.256	263.565	265.873
55	196.405	204.713	216.484	233.331	240.948
60	155.093	165.248	185.327	206.098	216.022
65	115.396	131.552	156.708	180.480	190.635
70	79.162	100.395	127.398	153.246	165.248
75	50.313	70.623	101.087	126.936	138.937
80	27.464	47.082	79.393	102.934	114.012
85	8.770	28.849	60.237	81.239	91.625
90	0.000	18.694	45.928	65.545	72.700
95	0.000	17.079	42.927	60.006	64.160
100	0.000	16.155	39.927	54.698	58.391
105	0.000	14.771	37.388	50.544	54.236
110	0.000	13.848	34.850	47.313	51.005
115	0.000	12.694	31.849	44.312	47.774
120	0.000	10.847	28.618	40.158	44.312
125	0.000	9.001	25.849	36.696	40.389
130	0.000	7.385	22.387	32.773	35.311
135	0.000	6.693	18.002	28.388	30.926
140	0.000	5.539	14.078	23.772	26.310
145	0.000	4.385	10.847	18.463	21.002
150	0.000	3.231	8.309	14.078	16.155
155	0.000	2.539	6.693	10.155	11.770
160	0.000	0.000	4.847	7.385	8.309
165	0.000	0.000	3.231	5.308	5.770
170	0.000	0.000	0.000	3.231	3.462
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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Zone	Lumens	%Lamp	%Fixt
0-20	185.08	N.A.	12.20
0-30	387.13	N.A.	25.60
0-40	619.73	N.A.	41.00
0-60	1041.36	N.A.	68.90
0-80	1300.44	N.A.	86.10
0-90	1362.3	N.A.	90.20
10-90	1314.13	N.A.	87.00
20-40	434.65	N.A.	28.80
20-50	660.25	N.A.	43.70
40-70	575.74	N.A.	38.10
60-80	259.08	N.A.	17.10
70-80	104.97	N.A.	6.90
80-90	61.86	N.A.	4.10
90-110	76.12	N.A.	5.00
90-120	103.99	N.A.	6.90
90-130	124.52	N.A.	8.20
90-150	144.89	N.A.	9.60
90-180	148.71	N.A.	9.80
110-180	72.59	N.A.	4.80
0-180	1511.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	48.17
10-20	136.91
20-30	202.06
30-40	232.59
40-50	225.60
50-60	196.04
60-70	154.11
70-80	104.97
80-90	61.86
90-100	41.65
100-110	34.47
110-120	27.87
120-130	20.53
130-140	13.30
140-150	7.07
150-160	2.96
160-170	0.82
170-180	0.04

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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	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	106	101	96	92	102	97	93	89	91	88	85	86	83	81	81	78	76	74
2	96	88	81	75	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	88	77	69	62	84	75	67	61	70	64	59	66	61	56	62	58	54	52
4	80	68	60	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44
5	74	61	52	46	71	59	51	45	56	49	44	53	47	42	50	45	41	39
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	40	36	34
7	63	50	41	35	61	49	41	35	46	39	34	44	38	33	42	36	32	30
8	59	46	37	32	57	45	37	31	43	35	30	41	34	30	39	33	29	27
9	55	42	34	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	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	16.8	18.3	17.4	18.8	19.3	19.0	20.4	19.5	21.0	21.5
	3H	18.0	19.3	18.5	19.8	20.4	21.4	22.7	21.9	23.2	23.8
	4H	18.3	19.5	18.9	20.1	20.7	22.5	23.7	23.0	24.3	24.9
	6H	18.5	19.6	19.1	20.2	20.8	23.6	24.7	24.2	25.3	25.9
	8H	18.5	19.6	19.1	20.2	20.8	24.1	25.2	24.7	25.8	26.4
	12H	18.5	19.5	19.1	20.1	20.8	24.7	25.8	25.3	26.3	27.0

UGR Viewed Endwise

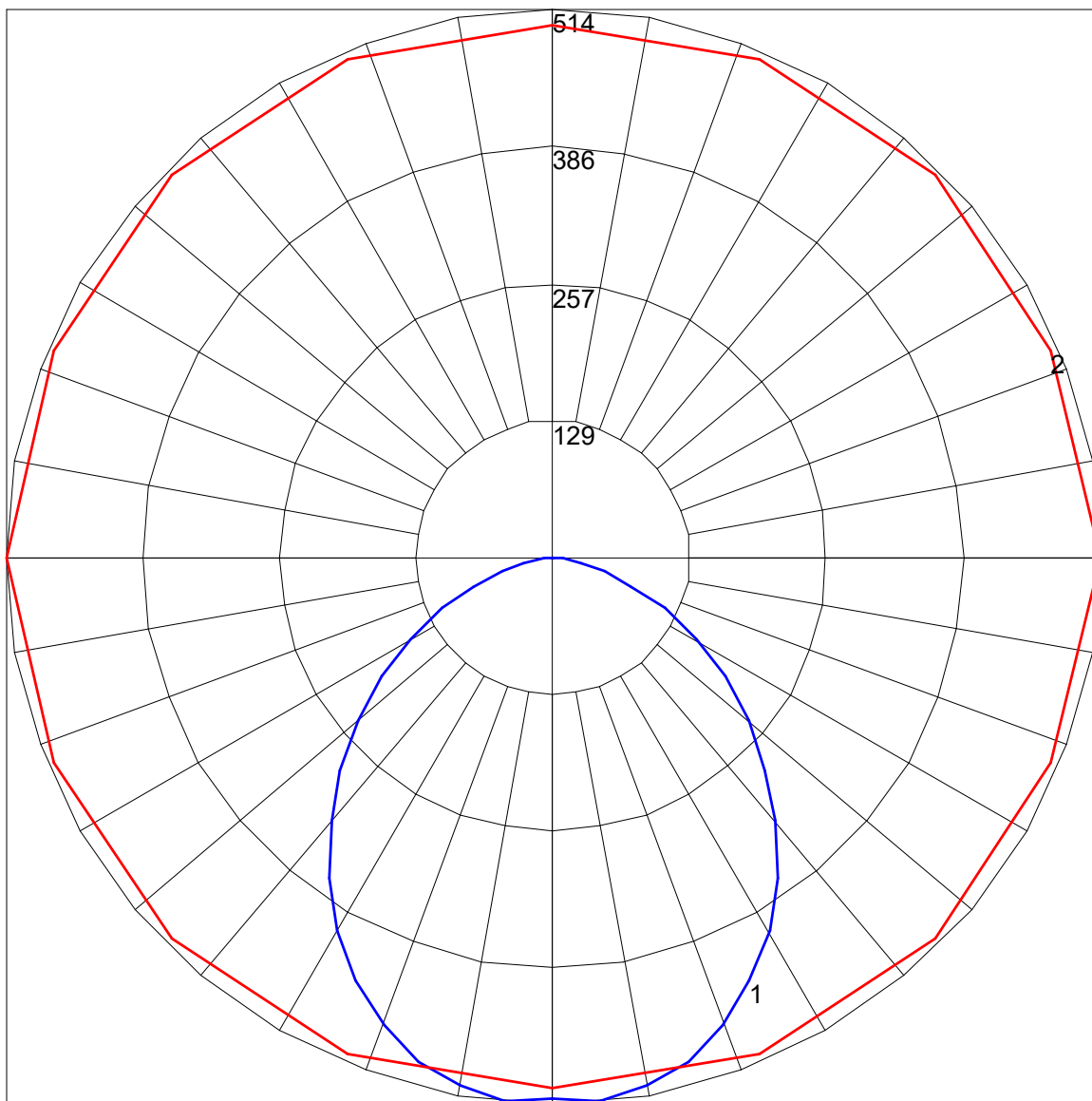
4H	2H	17.6	18.9	18.2	19.4	20.0	19.4	20.6	19.9	21.1	21.7
	3H	19.1	20.1	19.6	20.7	21.3	22.0	23.0	22.5	23.6	24.2
	4H	19.5	20.4	20.1	21.0	21.7	23.2	24.2	23.8	24.8	25.4
	6H	19.8	20.6	20.4	21.2	21.9	24.5	25.3	25.1	25.9	26.6
	8H	19.8	20.6	20.4	21.2	21.9	25.2	25.9	25.8	26.5	27.2
	12H	19.8	20.5	20.5	21.2	21.9	25.8	26.6	26.5	27.2	27.9

8H	4H	20.1	20.9	20.7	21.5	22.2	23.4	24.1	24.0	24.8	25.4
	6H	20.6	21.2	21.2	21.9	22.6	24.8	25.5	25.5	26.1	26.8
	8H	20.7	21.3	21.3	21.9	22.6	25.6	26.2	26.2	26.8	27.5
	12H	20.7	21.3	21.4	21.9	22.7	26.4	27.0	27.1	27.6	28.4

12H	4H	20.3	21.0	20.9	21.6	22.3	23.4	24.1	24.0	24.7	25.4
	6H	20.8	21.4	21.5	22.1	22.8	24.8	25.4	25.5	26.1	26.8
	8H	21.0	21.6	21.7	22.2	23.0	25.7	26.2	26.3	26.8	27.6

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 514.206 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.)