

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-2-L25-840-DIM-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-L25-840-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	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)	1.20
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	17790	14490	13864
55	14952	12104	12423
65	11578	10295	11285
75	7746	8357	10012
85	3102	7002	8777

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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	858.396	858.396	858.396	858.396	858.396
5	865.779	854.898	854.510	852.567	842.464
10	851.013	841.298	842.075	839.743	830.417
15	827.309	817.982	820.314	817.982	810.211
20	787.672	780.678	787.672	784.175	776.015
25	738.710	735.990	742.207	741.819	729.772
30	684.696	685.862	692.856	692.856	678.090
35	618.636	627.962	631.459	632.625	617.470
40	546.746	560.736	557.627	563.844	556.073
45	476.412	488.846	488.069	499.338	497.395
50	404.522	415.791	424.729	443.770	447.656
55	330.690	344.679	364.498	392.865	405.688
60	261.133	278.231	312.038	347.011	363.720
65	194.295	221.496	263.853	303.878	320.975
70	133.286	169.037	214.502	258.024	278.231
75	84.713	118.909	170.203	213.725	233.931
80	46.242	79.272	133.675	173.311	191.964
85	14.766	48.574	101.422	136.784	154.270
90	0.000	31.476	77.329	110.360	122.406
95	0.000	28.756	72.278	101.033	108.028
100	0.000	27.201	67.226	92.096	98.313
105	0.000	24.870	62.952	85.101	91.319
110	0.000	23.315	58.677	79.661	85.878
115	0.000	21.372	53.625	74.609	80.438
120	0.000	18.264	48.185	67.615	74.609
125	0.000	15.155	43.522	61.786	68.003
130	0.000	12.435	37.693	55.180	59.454
135	0.000	11.269	30.310	47.797	52.071
140	0.000	9.326	23.704	40.025	44.299
145	0.000	7.383	18.264	31.087	35.362
150	0.000	5.440	13.989	23.704	27.201
155	0.000	4.274	11.269	17.098	19.818
160	0.000	0.000	8.160	12.435	13.989
165	0.000	0.000	5.440	8.938	9.715
170	0.000	0.000	0.000	5.440	5.829
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	311.62	N.A.	12.20
0-30	651.83	N.A.	25.60
0-40	1043.44	N.A.	41.00
0-60	1753.35	N.A.	68.90
0-80	2189.57	N.A.	86.10
0-90	2293.73	N.A.	90.20
10-90	2212.62	N.A.	87.00
20-40	731.83	N.A.	28.80
20-50	1111.67	N.A.	43.70
40-70	969.39	N.A.	38.10
60-80	436.22	N.A.	17.10
70-80	176.74	N.A.	6.90
80-90	104.16	N.A.	4.10
90-110	128.17	N.A.	5.00
90-120	175.09	N.A.	6.90
90-130	209.65	N.A.	8.20
90-150	243.95	N.A.	9.60
90-180	250.38	N.A.	9.80
110-180	122.22	N.A.	4.80
0-180	2544.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	81.11
10-20	230.51
20-30	340.21
30-40	391.62
40-50	379.84
50-60	330.07
60-70	259.48
70-80	176.74
80-90	104.16
90-100	70.13
100-110	58.04
110-120	46.92
120-130	34.57
130-140	22.40
140-150	11.90
150-160	4.98
160-170	1.37
170-180	0.07

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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	18.6	20.1	19.2	20.6	21.1	20.8	22.2	21.3	22.8	23.3
	3H	19.8	21.1	20.3	21.6	22.2	23.2	24.5	23.7	25.0	25.6
	4H	20.1	21.3	20.7	21.9	22.5	24.3	25.5	24.8	26.0	26.7
	6H	20.3	21.4	20.9	22.0	22.6	25.4	26.5	26.0	27.1	27.7
	8H	20.3	21.4	20.9	22.0	22.6	25.9	27.0	26.5	27.6	28.2
	12H	20.3	21.3	20.9	21.9	22.6	26.5	27.6	27.1	28.1	28.8

UGR Viewed Endwise

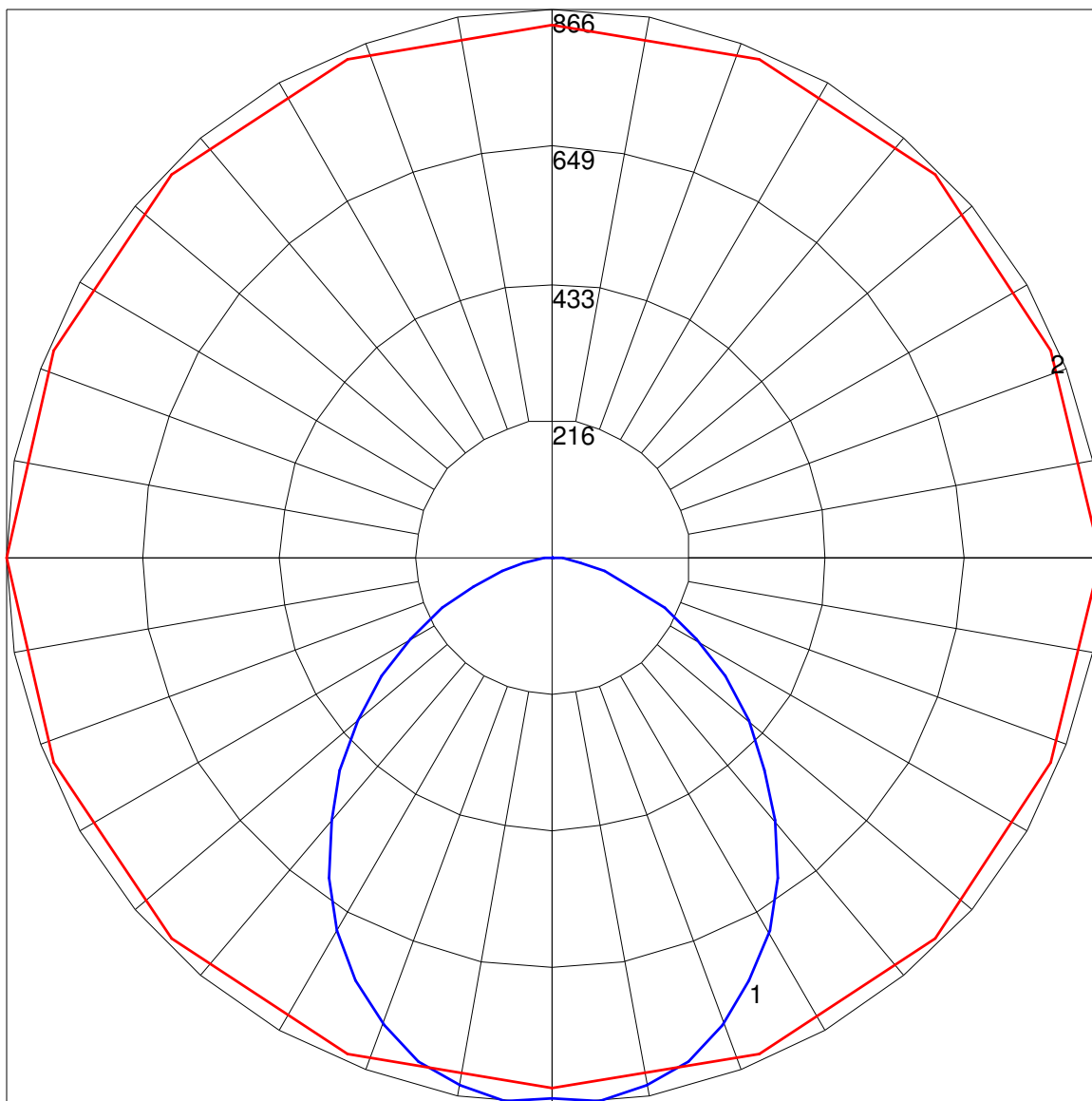
4H	2H	19.4	20.7	20.0	21.2	21.8	21.2	22.4	21.7	22.9	23.5
	3H	20.9	21.9	21.4	22.5	23.1	23.8	24.8	24.3	25.4	26.0
	4H	21.3	22.2	21.9	22.8	23.5	25.0	26.0	25.6	26.6	27.2
	6H	21.6	22.4	22.2	23.0	23.7	26.3	27.1	26.9	27.7	28.4
	8H	21.6	22.4	22.2	23.0	23.7	27.0	27.7	27.6	28.3	29.0
	12H	21.6	22.3	22.3	23.0	23.7	27.6	28.4	28.3	29.0	29.7

8H	4H	21.9	22.7	22.5	23.3	24.0	25.2	25.9	25.8	26.6	27.2
	6H	22.4	23.0	23.0	23.7	24.4	26.6	27.3	27.3	27.9	28.6
	8H	22.5	23.1	23.1	23.7	24.4	27.4	28.0	28.0	28.6	29.3
	12H	22.5	23.1	23.2	23.7	24.5	28.2	28.8	28.9	29.4	30.2

12H	4H	22.1	22.8	22.7	23.4	24.1	25.2	25.9	25.8	26.5	27.2
	6H	22.6	23.2	23.3	23.9	24.6	26.6	27.2	27.3	27.9	28.6
	8H	22.8	23.4	23.5	24.0	24.8	27.5	28.0	28.1	28.6	29.4

Maximum UGR = 30.2

POLAR GRAPH



Maximum Candela = 865.779 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.)