



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-840-(L60)-EM10WLP-DIM-UNV(EMER MODE)_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 19745.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 07-17-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO
 [LUMINAIRE] 2-56 LED STRIP LUMINAIRE
 [MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS
 [LUMCAT] 75S-4-L65-840-(L60)-EM10WLP-DIM-UNV(EMER MODE)
 [LAMPCAT] HLM 80 CRI 4000K CCT
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Commercial, Industrial, Manufacturing,
 [_SEARCH_MOUNTING] Surface, Suspended

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1450
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	145
Total Luminaire Watts	10
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)	3.72 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	5222	4214	3984
55	4427	3532	3570
65	3476	3018	3243
75	2394	2467	2877
85	1070	2093	2522

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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	489.239	489.239	489.239	489.239	489.239
5	493.447	487.246	487.025	485.917	480.159
10	485.031	479.494	479.937	478.609	473.293
15	471.521	466.206	467.535	466.206	461.776
20	448.931	444.944	448.931	446.938	442.287
25	421.025	419.475	423.018	422.797	415.931
30	390.240	390.904	394.891	394.891	386.475
35	352.589	357.904	359.898	360.562	351.925
40	311.616	319.589	317.817	321.361	316.931
45	271.529	278.616	278.173	284.596	283.489
50	230.556	236.979	242.073	252.925	255.140
55	188.476	196.449	207.744	223.912	231.220
60	148.832	158.576	177.845	197.778	207.301
65	110.738	126.241	150.382	173.194	182.939
70	75.966	96.342	122.254	147.060	158.576
75	48.282	67.772	97.006	121.812	133.328
80	26.356	45.181	76.188	98.778	109.409
85	8.416	27.684	57.805	77.959	87.926
90	0.000	17.940	44.074	62.899	69.765
95	0.000	16.389	41.194	57.584	61.570
100	0.000	15.503	38.315	52.490	56.033
105	0.000	14.174	35.879	48.503	52.047
110	0.000	13.289	33.443	45.402	48.946
115	0.000	12.181	30.564	42.523	45.845
120	0.000	10.409	27.463	38.537	42.523
125	0.000	8.638	24.805	35.215	38.758
130	0.000	7.087	21.483	31.450	33.886
135	0.000	6.423	17.275	27.241	29.678
140	0.000	5.315	13.510	22.812	25.248
145	0.000	4.208	10.409	17.718	20.154
150	0.000	3.101	7.973	13.510	15.503
155	0.000	2.436	6.423	9.745	11.295
160	0.000	0.000	4.651	7.087	7.973
165	0.000	0.000	3.101	5.094	5.537
170	0.000	0.000	0.000	3.101	3.322
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 75S-4-L65-840-(L60)-EM10WLP-DIM-UNV(EMER MODE)_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	177.60	N.A.	12.20
0-30	371.51	N.A.	25.60
0-40	594.71	N.A.	41.00
0-60	999.32	N.A.	68.90
0-80	1247.94	N.A.	86.10
0-90	1307.3	N.A.	90.20
10-90	1261.08	N.A.	87.00
20-40	417.10	N.A.	28.80
20-50	633.59	N.A.	43.70
40-70	552.50	N.A.	38.10
60-80	248.62	N.A.	17.10
70-80	100.73	N.A.	6.90
80-90	59.37	N.A.	4.10
90-110	73.05	N.A.	5.00
90-120	99.79	N.A.	6.90
90-130	119.49	N.A.	8.20
90-150	139.04	N.A.	9.60
90-180	142.71	N.A.	9.80
110-180	69.66	N.A.	4.80
0-180	1450.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.23
10-20	131.38
20-30	193.90
30-40	223.20
40-50	216.49
50-60	188.12
60-70	147.89
70-80	100.73
80-90	59.37
90-100	39.97
100-110	33.08
110-120	26.74
120-130	19.70
130-140	12.77
140-150	6.78
150-160	2.84
160-170	0.78
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	14.4	15.8	14.9	16.3	16.9	16.6	18.1	17.2	18.6	19.1
	3H	15.6	16.8	16.1	17.4	17.9	19.0	20.3	19.6	20.8	21.4
	4H	15.9	17.1	16.4	17.6	18.2	20.2	21.4	20.7	21.9	22.5
	6H	16.0	17.2	16.6	17.7	18.3	21.3	22.4	21.9	23.0	23.6
	8H	16.0	17.1	16.6	17.7	18.3	21.9	23.0	22.5	23.5	24.2
	12H	16.0	17.1	16.6	17.6	18.3	22.5	23.5	23.1	24.1	24.8

UGR Viewed Endwise

4H	2H	15.2	16.4	15.7	17.0	17.6	17.0	18.2	17.5	18.8	19.4
	3H	16.6	17.6	17.2	18.2	18.9	19.6	20.6	20.2	21.2	21.8
	4H	17.1	18.0	17.6	18.6	19.2	20.9	21.8	21.5	22.4	23.1
	6H	17.3	18.1	17.9	18.8	19.4	22.2	23.0	22.8	23.6	24.3
	8H	17.4	18.2	18.0	18.8	19.4	22.9	23.7	23.5	24.3	25.0
	12H	17.4	18.1	18.0	18.7	19.4	23.6	24.3	24.3	25.0	25.7

8H	4H	17.7	18.5	18.3	19.1	19.8	21.0	21.8	21.6	22.4	23.1
	6H	18.1	18.8	18.8	19.4	20.1	22.5	23.2	23.2	23.8	24.5
	8H	18.3	18.8	18.9	19.5	20.2	23.3	23.9	24.0	24.6	25.3
	12H	18.3	18.8	19.0	19.5	20.3	24.2	24.7	24.9	25.4	26.2

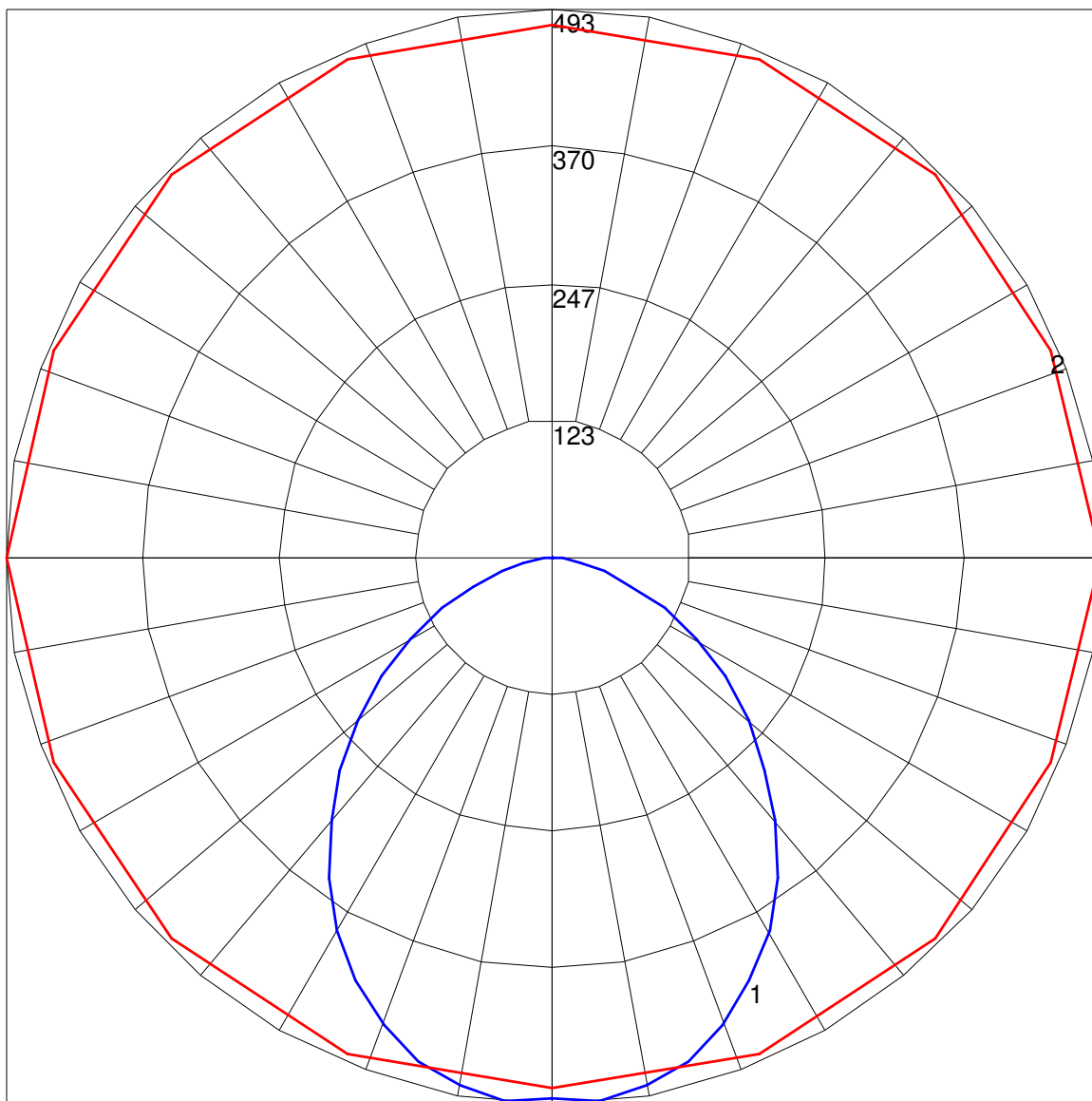
12H	4H	17.9	18.6	18.5	19.2	19.9	21.0	21.7	21.6	22.4	23.1
	6H	18.4	19.0	19.1	19.6	20.4	22.5	23.1	23.2	23.7	24.5
	8H	18.6	19.1	19.3	19.8	20.6	23.4	23.9	24.0	24.6	25.3

Maximum UGR = 26.2

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POLAR GRAPH



Maximum Candela = 493.447 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.)