



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-840-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] 4' LED STRIP LUMINAIRE

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC SQUARE LENS

[LUMCAT] 75S-4-L30-840-EM10WLP-DIM-UNV(EMER MODE)

[LAMPCAT] HLM 80 CRI 4000K CCT

[_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	1630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	163
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	5870	4737	4478
55	4977	3971	4013
65	3908	3393	3645
75	2691	2773	3234
85	1202	2353	2835

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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	549.973	549.973	549.973	549.973	549.973
5	554.703	547.732	547.483	546.238	539.765
10	545.242	539.018	539.516	538.022	532.047
15	530.055	524.080	525.574	524.080	519.100
20	504.660	500.179	504.660	502.419	497.191
25	473.290	471.547	475.531	475.282	467.564
30	438.683	439.430	443.912	443.912	434.451
35	396.359	402.334	404.575	405.322	395.612
40	350.299	359.262	357.271	361.254	356.275
45	305.236	313.203	312.705	319.925	318.680
50	259.177	266.397	272.123	284.323	286.812
55	211.873	220.836	233.533	251.708	259.924
60	167.307	178.262	199.922	222.329	233.035
65	124.485	141.912	169.050	194.694	205.648
70	85.396	108.302	137.431	165.315	178.262
75	54.275	76.185	109.048	136.933	149.879
80	29.627	50.790	85.645	111.040	122.991
85	9.461	31.121	64.981	87.637	98.841
90	0.000	20.166	49.545	70.707	78.425
95	0.000	18.424	46.308	64.732	69.213
100	0.000	17.428	43.072	59.006	62.989
105	0.000	15.934	40.333	54.524	58.508
110	0.000	14.938	37.594	51.039	55.022
115	0.000	13.693	34.358	47.802	51.537
120	0.000	11.702	30.872	43.321	47.802
125	0.000	9.710	27.885	39.586	43.570
130	0.000	7.967	24.150	35.354	38.092
135	0.000	7.220	19.420	30.623	33.362
140	0.000	5.975	15.187	25.644	28.382
145	0.000	4.730	11.702	19.918	22.656
150	0.000	3.486	8.963	15.187	17.428
155	0.000	2.739	7.220	10.955	12.697
160	0.000	0.000	5.228	7.967	8.963
165	0.000	0.000	3.486	5.726	6.224
170	0.000	0.000	0.000	3.486	3.735
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-L30-840-EM10WLP-DIM-UNV(EMER MODE)_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	199.65	N.A.	12.20
0-30	417.62	N.A.	25.60
0-40	668.53	N.A.	41.00
0-60	1123.37	N.A.	68.90
0-80	1402.85	N.A.	86.10
0-90	1469.59	N.A.	90.20
10-90	1417.62	N.A.	87.00
20-40	468.88	N.A.	28.80
20-50	712.24	N.A.	43.70
40-70	621.09	N.A.	38.10
60-80	279.48	N.A.	17.10
70-80	113.24	N.A.	6.90
80-90	66.74	N.A.	4.10
90-110	82.12	N.A.	5.00
90-120	112.18	N.A.	6.90
90-130	134.32	N.A.	8.20
90-150	156.30	N.A.	9.60
90-180	160.42	N.A.	9.80
110-180	78.30	N.A.	4.80
0-180	1630.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	51.96
10-20	147.69
20-30	217.97
30-40	250.91
40-50	243.36
50-60	211.47
60-70	166.25
70-80	113.24
80-90	66.74
90-100	44.93
100-110	37.19
110-120	30.06
120-130	22.15
130-140	14.35
140-150	7.63
150-160	3.19
160-170	0.88
170-180	0.05

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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	14.8	16.2	15.3	16.7	17.3	17.0	18.5	17.6	19.0	19.5
	3H	16.0	17.2	16.5	17.8	18.3	19.4	20.7	20.0	21.2	21.8
	4H	16.3	17.5	16.8	18.0	18.6	20.6	21.8	21.1	22.3	22.9
	6H	16.4	17.6	17.0	18.1	18.7	21.7	22.8	22.3	23.4	24.0
	8H	16.4	17.5	17.0	18.1	18.7	22.3	23.4	22.9	23.9	24.6
	12H	16.4	17.5	17.0	18.0	18.7	22.9	23.9	23.5	24.5	25.2

UGR Viewed Endwise

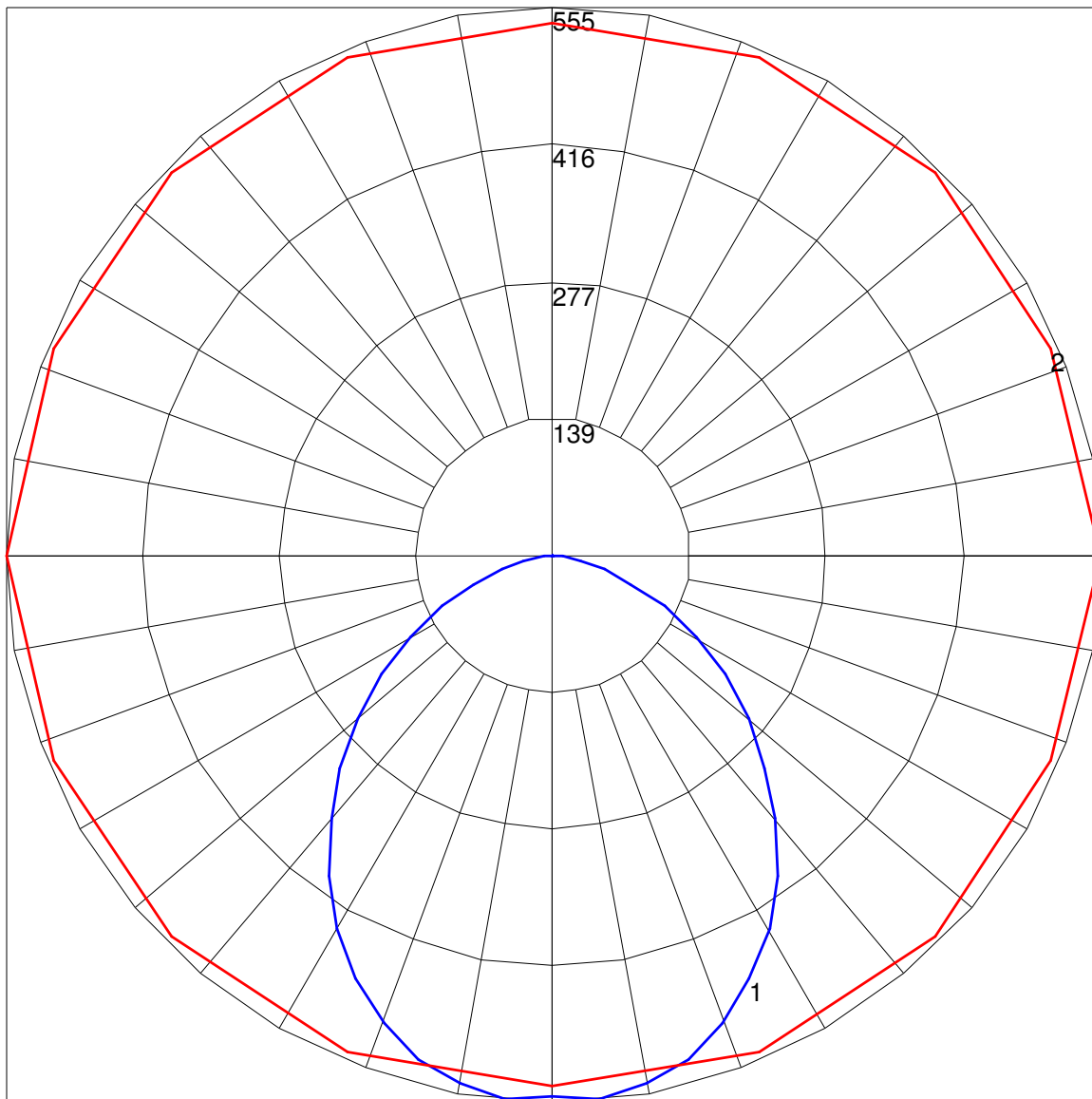
4H	2H	15.6	16.8	16.1	17.4	18.0	17.4	18.6	17.9	19.1	19.8
	3H	17.0	18.0	17.6	18.6	19.3	20.0	21.0	20.6	21.6	22.2
	4H	17.5	18.4	18.0	19.0	19.6	21.3	22.2	21.9	22.8	23.5
	6H	17.7	18.5	18.3	19.2	19.8	22.6	23.4	23.2	24.0	24.7
	8H	17.8	18.6	18.4	19.2	19.8	23.3	24.1	23.9	24.7	25.4
	12H	17.8	18.5	18.4	19.1	19.8	24.0	24.7	24.7	25.4	26.1

8H	4H	18.1	18.9	18.7	19.5	20.2	21.4	22.2	22.0	22.8	23.5
	6H	18.5	19.2	19.2	19.8	20.5	22.9	23.6	23.6	24.2	24.9
	8H	18.7	19.2	19.3	19.9	20.6	23.7	24.3	24.4	25.0	25.7
	12H	18.7	19.2	19.4	19.9	20.7	24.6	25.1	25.3	25.8	26.6

12H	4H	18.3	19.0	18.9	19.6	20.3	21.4	22.1	22.0	22.8	23.5
	6H	18.8	19.4	19.5	20.0	20.8	22.9	23.5	23.6	24.1	24.9
	8H	19.0	19.5	19.7	20.2	21.0	23.8	24.3	24.4	25.0	25.7

Maximum UGR = 26.6

POLAR GRAPH



Maximum Candela = 554.703 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.)