



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-830-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] 02-11-2022

[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-L30-830-EM10WLP-DIM-UNV

[LAMPCAT] HLM 80 CRI 3000K 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	1465
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	147
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	5276	4257	4025
55	4473	3569	3607
65	3512	3049	3276
75	2419	2493	2907
85	1081	2115	2548

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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	494.300	494.300	494.300	494.300	494.300
5	498.552	492.287	492.063	490.944	485.126
10	490.049	484.455	484.902	483.560	478.189
15	476.399	471.029	472.371	471.029	466.553
20	453.575	449.547	453.575	451.561	446.862
25	425.380	423.814	427.394	427.170	420.234
30	394.277	394.948	398.976	398.976	390.473
35	356.236	361.607	363.621	364.292	355.565
40	314.840	322.895	321.105	324.685	320.210
45	274.338	281.498	281.051	287.540	286.421
50	232.941	239.430	244.577	255.541	257.779
55	190.425	198.481	209.893	226.228	233.612
60	150.371	160.217	179.685	199.824	209.446
65	111.883	127.547	151.938	174.985	184.831
70	76.752	97.338	123.519	148.581	160.217
75	48.781	68.473	98.010	123.072	134.707
80	26.628	45.648	76.976	99.800	110.541
85	8.503	27.971	58.403	78.766	88.835
90	0.000	18.125	44.530	63.550	70.486
95	0.000	16.559	41.621	58.179	62.207
100	0.000	15.664	38.712	53.033	56.613
105	0.000	14.321	36.250	49.005	52.585
110	0.000	13.426	33.789	45.872	49.452
115	0.000	12.307	30.880	42.963	46.320
120	0.000	10.517	27.747	38.935	42.963
125	0.000	8.727	25.062	35.579	39.159
130	0.000	7.161	21.705	31.775	34.236
135	0.000	6.489	17.454	27.523	29.985
140	0.000	5.370	13.650	23.048	25.509
145	0.000	4.252	10.517	17.901	20.363
150	0.000	3.133	8.056	13.650	15.664
155	0.000	2.461	6.489	9.846	11.412
160	0.000	0.000	4.699	7.161	8.056
165	0.000	0.000	3.133	5.147	5.594
170	0.000	0.000	0.000	3.133	3.356
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-L30-830-EM10WLP-DIM-UNV_(EMER MODE).IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	179.44	N.A.	12.20
0-30	375.35	N.A.	25.60
0-40	600.86	N.A.	41.00
0-60	1009.65	N.A.	68.90
0-80	1260.85	N.A.	86.10
0-90	1320.83	N.A.	90.20
10-90	1274.12	N.A.	87.00
20-40	421.42	N.A.	28.80
20-50	640.15	N.A.	43.70
40-70	558.21	N.A.	38.10
60-80	251.19	N.A.	17.10
70-80	101.77	N.A.	6.90
80-90	59.98	N.A.	4.10
90-110	73.80	N.A.	5.00
90-120	100.82	N.A.	6.90
90-130	120.73	N.A.	8.20
90-150	140.48	N.A.	9.60
90-180	144.18	N.A.	9.80
110-180	70.38	N.A.	4.80
0-180	1465.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	46.70
10-20	132.74
20-30	195.91
30-40	225.51
40-50	218.73
50-60	190.07
60-70	149.42
70-80	101.77
80-90	59.98
90-100	40.38
100-110	33.42
110-120	27.02
120-130	19.90
130-140	12.90
140-150	6.85
150-160	2.87
160-170	0.79
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

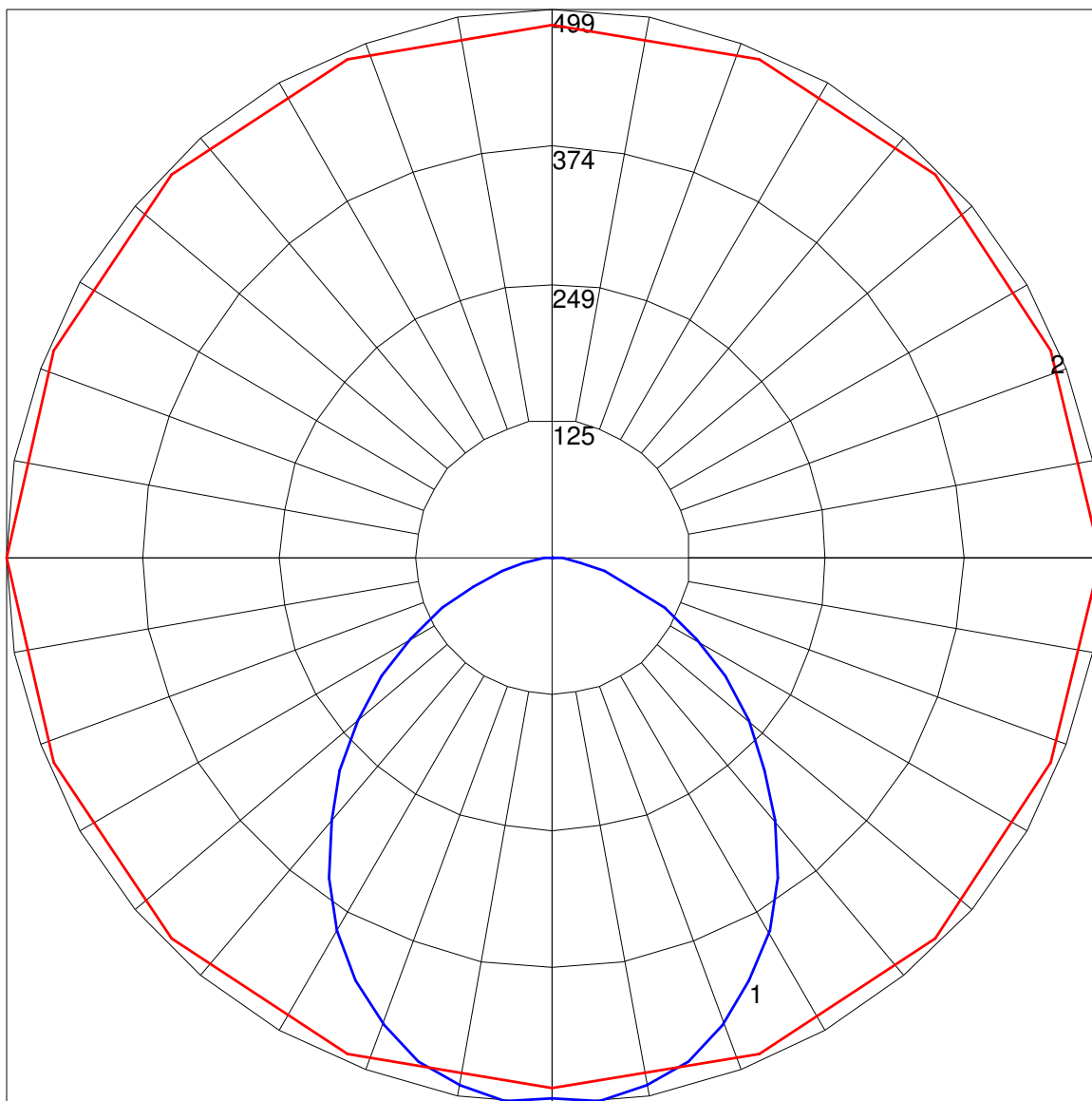
X=2H	Y=2H	14.4	15.8	14.9	16.3	16.9	16.6	18.1	17.2	18.6	19.1
	3H	15.6	16.8	16.1	17.4	17.9	19.0	20.3	19.6	20.8	21.4
	4H	15.9	17.1	16.4	17.6	18.2	20.2	21.4	20.7	21.9	22.5
	6H	16.0	17.2	16.6	17.7	18.3	21.3	22.4	21.9	23.0	23.6
	8H	16.0	17.1	16.6	17.7	18.3	21.9	23.0	22.5	23.5	24.2
	12H	16.0	17.1	16.6	17.6	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

POLAR GRAPH



Maximum Candela = 498.552 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.)