



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L30-840-EM15W-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] 01-11-2024

[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-EM15W-DIM-UNV

[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	2220
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	148
Total Luminaire Watts	15
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	7995	6451	6099
55	6778	5408	5465
65	5322	4621	4965
75	3665	3777	4405
85	1638	3204	3861

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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	749.042	749.042	749.042	749.042	749.042
5	755.485	745.991	745.651	743.956	735.140
10	742.600	734.122	734.801	732.766	724.628
15	721.915	713.777	715.812	713.777	706.996
20	687.329	681.225	687.329	684.277	677.156
25	644.604	642.230	647.655	647.316	636.805
30	597.471	598.488	604.591	604.591	591.706
35	539.826	547.964	551.016	552.033	538.809
40	477.095	489.302	486.589	492.015	485.233
45	415.720	426.571	425.893	435.726	434.031
50	352.989	362.823	370.622	387.237	390.628
55	288.563	300.770	318.063	342.817	354.006
60	227.866	242.786	272.287	302.804	317.385
65	169.543	193.279	230.240	265.166	280.086
70	116.307	147.503	187.176	225.153	242.786
75	73.921	103.760	148.520	186.498	204.130
80	40.351	69.174	116.646	151.233	167.509
85	12.885	42.386	88.502	119.358	134.617
90	0.000	27.466	67.478	96.301	106.812
95	0.000	25.092	63.070	88.163	94.266
100	0.000	23.736	58.662	80.364	85.789
105	0.000	21.702	54.932	74.260	79.685
110	0.000	20.345	51.202	69.513	74.938
115	0.000	18.650	46.794	65.105	70.191
120	0.000	15.937	42.047	59.001	65.105
125	0.000	13.224	37.978	53.915	59.340
130	0.000	10.851	32.891	48.150	51.880
135	0.000	9.834	26.449	41.708	45.438
140	0.000	8.138	20.684	34.926	38.656
145	0.000	6.443	15.937	27.127	30.857
150	0.000	4.747	12.207	20.684	23.736
155	0.000	3.730	9.834	14.920	17.293
160	0.000	0.000	7.121	10.851	12.207
165	0.000	0.000	4.747	7.799	8.477
170	0.000	0.000	0.000	4.747	5.086
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-EM15W-DIM-UNV(EMER MODE)\_.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	271.92	N.A.	12.20
0-30	568.79	N.A.	25.60
0-40	910.52	N.A.	41.00
0-60	1529.99	N.A.	68.90
0-80	1910.64	N.A.	86.10
0-90	2001.53	N.A.	90.20
10-90	1930.75	N.A.	87.00
20-40	638.60	N.A.	28.80
20-50	970.05	N.A.	43.70
40-70	845.90	N.A.	38.10
60-80	380.65	N.A.	17.10
70-80	154.22	N.A.	6.90
80-90	90.89	N.A.	4.10
90-110	111.84	N.A.	5.00
90-120	152.78	N.A.	6.90
90-130	182.94	N.A.	8.20
90-150	212.88	N.A.	9.60
90-180	218.49	N.A.	9.80
110-180	106.65	N.A.	4.80
0-180	2220.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	70.77
10-20	201.14
20-30	296.87
30-40	341.73
40-50	331.45
50-60	288.02
60-70	226.42
70-80	154.22
80-90	90.89
90-100	61.19
100-110	50.65
110-120	40.94
120-130	30.16
130-140	19.55
140-150	10.39
150-160	4.35
160-170	1.20
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	15.9	17.3	16.4	17.8	18.4	18.1	19.6	18.7	20.1	20.6
	3H	17.1	18.3	17.6	18.9	19.4	20.5	21.8	21.1	22.3	22.9
	4H	17.4	18.6	17.9	19.1	19.7	21.7	22.9	22.2	23.4	24.0
	6H	17.5	18.7	18.1	19.2	19.8	22.8	23.9	23.4	24.5	25.1
	8H	17.5	18.6	18.1	19.2	19.8	23.4	24.5	24.0	25.0	25.7
	12H	17.5	18.6	18.1	19.1	19.8	24.0	25.0	24.6	25.6	26.3

### UGR Viewed Endwise

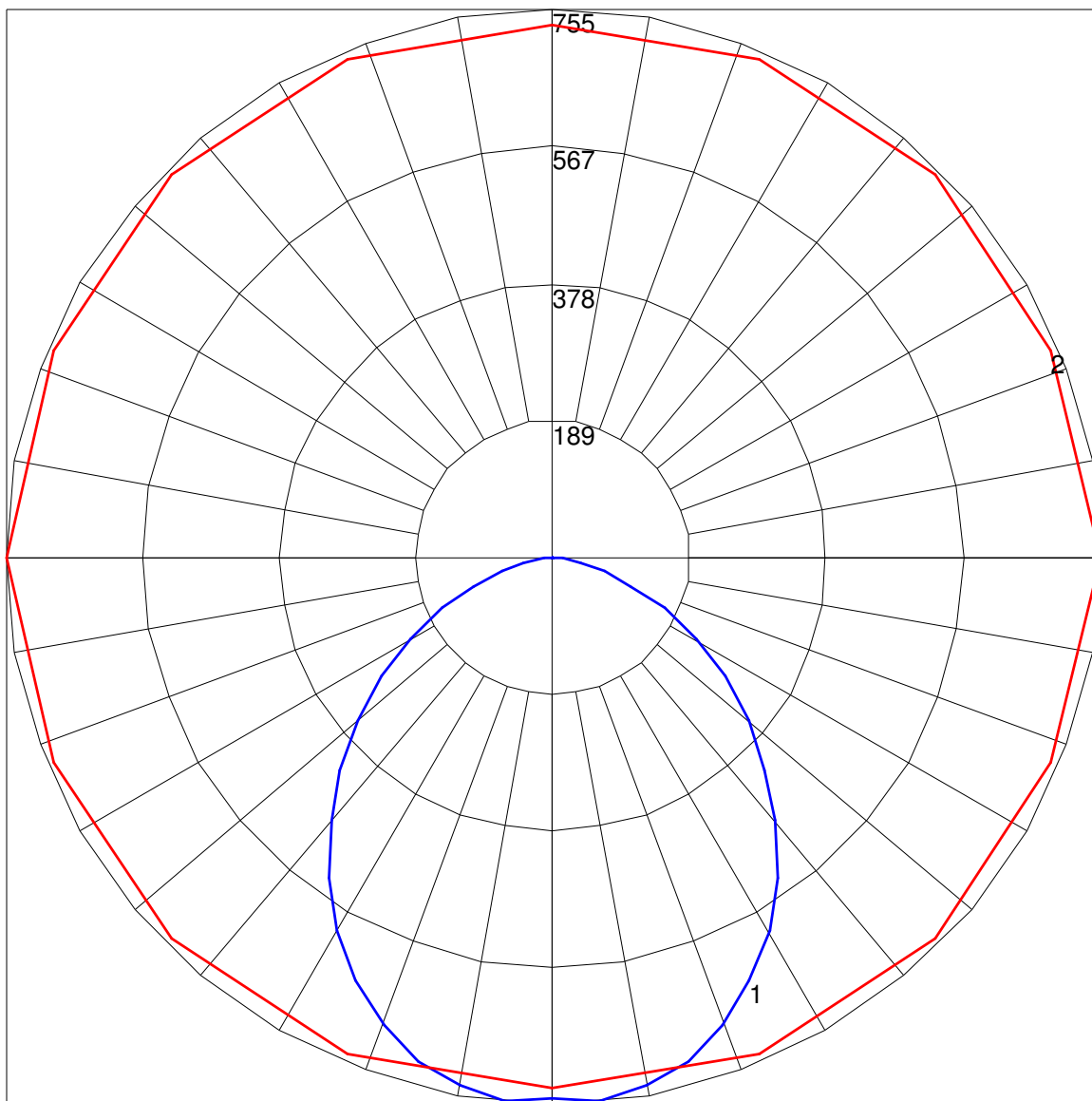
4H	2H	16.7	17.9	17.2	18.4	19.1	18.5	19.7	19.0	20.2	20.9
	3H	18.1	19.1	18.7	19.7	20.4	21.1	22.1	21.7	22.7	23.3
	4H	18.6	19.5	19.1	20.1	20.7	22.4	23.3	23.0	23.9	24.6
	6H	18.8	19.6	19.4	20.3	20.9	23.7	24.5	24.3	25.1	25.8
	8H	18.9	19.6	19.5	20.3	20.9	24.4	25.2	25.0	25.8	26.5
	12H	18.9	19.6	19.5	20.2	20.9	25.1	25.8	25.7	26.5	27.2

8H	4H	19.2	20.0	19.8	20.6	21.3	22.5	23.3	23.1	23.9	24.6
	6H	19.6	20.3	20.3	20.9	21.6	24.0	24.7	24.7	25.3	26.0
	8H	19.8	20.3	20.4	21.0	21.7	24.8	25.4	25.5	26.1	26.8
	12H	19.8	20.3	20.5	21.0	21.8	25.7	26.2	26.4	26.9	27.7

12H	4H	19.4	20.1	20.0	20.7	21.4	22.5	23.2	23.1	23.9	24.6
	6H	19.9	20.5	20.6	21.1	21.9	24.0	24.6	24.7	25.2	26.0
	8H	20.1	20.6	20.8	21.3	22.1	24.9	25.4	25.5	26.1	26.8

Maximum UGR = 27.7

POLAR GRAPH



Maximum Candela = 755.485 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.)