



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-930-(L55)-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] 09-23-2022

[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-L65-930-(L55)-EM10WLP-DIM-UNV

[LAMPCAT] HLM 90 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	1290
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
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	4646	3749	3544
55	3939	3142	3176
65	3093	2685	2885
75	2130	2195	2560
85	952	1862	2244

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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	435.254	435.254	435.254	435.254	435.254
5	438.998	433.481	433.284	432.299	427.176
10	431.511	426.585	426.979	425.797	421.068
15	419.491	414.762	415.945	414.762	410.822
20	399.394	395.847	399.394	397.620	393.482
25	374.567	373.188	376.340	376.143	370.035
30	347.179	347.770	351.317	351.317	343.829
35	313.683	318.411	320.185	320.776	313.091
40	277.231	284.324	282.748	285.900	281.960
45	241.567	247.872	247.478	253.192	252.207
50	205.115	210.829	215.361	225.016	226.986
55	167.678	174.772	184.821	199.204	205.706
60	132.409	141.078	158.221	175.954	184.426
65	98.518	112.311	133.788	154.083	162.752
70	67.584	85.711	108.764	130.832	141.078
75	42.954	60.293	86.302	108.370	118.616
80	23.447	40.196	67.781	87.878	97.336
85	7.487	24.630	51.427	69.357	78.224
90	0.000	15.960	39.210	55.958	62.067
95	0.000	14.581	36.649	51.230	54.776
100	0.000	13.793	34.087	46.698	49.850
105	0.000	12.610	31.920	43.151	46.304
110	0.000	11.822	29.753	40.393	43.545
115	0.000	10.837	27.191	37.831	40.787
120	0.000	9.261	24.433	34.284	37.831
125	0.000	7.684	22.068	31.329	34.481
130	0.000	6.305	19.113	27.979	30.147
135	0.000	5.714	15.369	24.236	26.403
140	0.000	4.729	12.019	20.295	22.462
145	0.000	3.744	9.261	15.763	17.930
150	0.000	2.759	7.093	12.019	13.793
155	0.000	2.167	5.714	8.670	10.049
160	0.000	0.000	4.138	6.305	7.093
165	0.000	0.000	2.759	4.532	4.926
170	0.000	0.000	0.000	2.759	2.956
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-L65-930-(L55)-EM10WLP-DIM-UNV_EMER MODE.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	158.01	N.A.	12.20
0-30	330.51	N.A.	25.60
0-40	529.08	N.A.	41.00
0-60	889.05	N.A.	68.90
0-80	1110.23	N.A.	86.10
0-90	1163.05	N.A.	90.20
10-90	1121.92	N.A.	87.00
20-40	371.08	N.A.	28.80
20-50	563.68	N.A.	43.70
40-70	491.53	N.A.	38.10
60-80	221.19	N.A.	17.10
70-80	89.62	N.A.	6.90
80-90	52.82	N.A.	4.10
90-110	64.99	N.A.	5.00
90-120	88.78	N.A.	6.90
90-130	106.30	N.A.	8.20
90-150	123.70	N.A.	9.60
90-180	126.96	N.A.	9.80
110-180	61.97	N.A.	4.80
0-180	1290.01	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	41.13
10-20	116.88
20-30	172.51
30-40	198.57
40-50	192.60
50-60	167.36
60-70	131.57
70-80	89.62
80-90	52.82
90-100	35.56
100-110	29.43
110-120	23.79
120-130	17.53
130-140	11.36
140-150	6.04
150-160	2.53
160-170	0.70
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	14.0	15.4	14.5	15.9	16.5	16.2	17.7	16.8	18.2	18.7
	3H	15.2	16.4	15.7	17.0	17.6	18.6	19.9	19.2	20.4	21.0
	4H	15.5	16.7	16.0	17.2	17.8	19.8	21.0	20.3	21.5	22.1
	6H	15.6	16.8	16.2	17.3	17.9	20.9	22.0	21.5	22.6	23.2
	8H	15.6	16.7	16.2	17.3	17.9	21.5	22.6	22.1	23.1	23.8
	12H	15.6	16.7	16.2	17.2	17.9	22.1	23.1	22.7	23.7	24.4

UGR Viewed Endwise

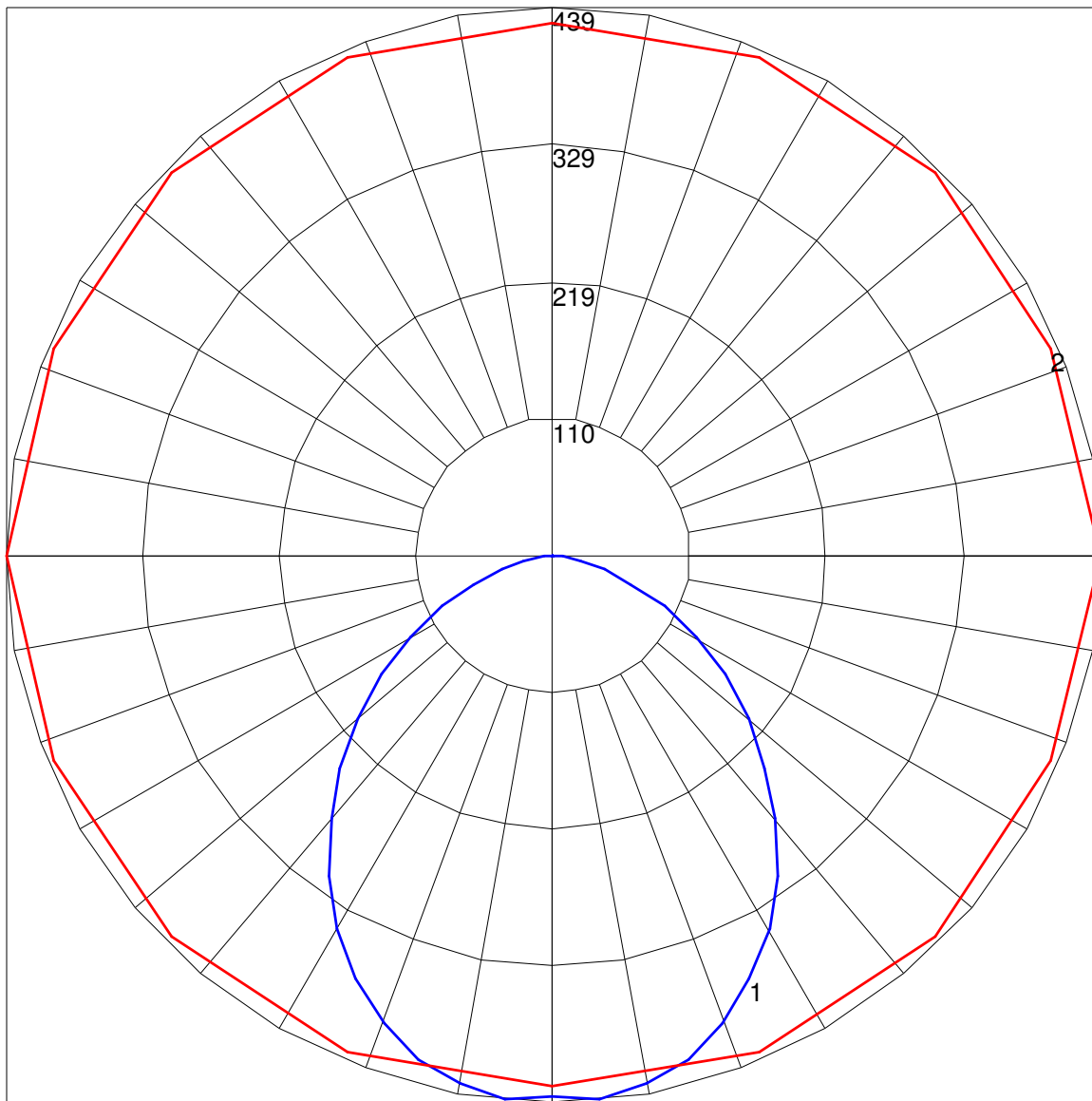
4H	2H	14.8	16.0	15.3	16.6	17.2	16.6	17.8	17.1	18.4	19.0
	3H	16.2	17.2	16.8	17.8	18.5	19.2	20.2	19.8	20.8	21.4
	4H	16.7	17.6	17.2	18.2	18.8	20.5	21.4	21.1	22.0	22.7
	6H	16.9	17.7	17.5	18.4	19.0	21.8	22.6	22.4	23.2	23.9
	8H	17.0	17.8	17.6	18.4	19.0	22.5	23.3	23.1	23.9	24.6
	12H	17.0	17.7	17.6	18.3	19.0	23.2	23.9	23.9	24.6	25.3

8H	4H	17.3	18.1	17.9	18.7	19.4	20.6	21.4	21.2	22.0	22.7
	6H	17.7	18.4	18.4	19.0	19.7	22.1	22.8	22.8	23.4	24.1
	8H	17.9	18.4	18.5	19.1	19.8	22.9	23.5	23.6	24.2	24.9
	12H	17.9	18.4	18.6	19.1	19.9	23.8	24.3	24.5	25.0	25.8

12H	4H	17.5	18.2	18.1	18.8	19.5	20.6	21.3	21.3	22.0	22.7
	6H	18.0	18.6	18.7	19.2	20.0	22.1	22.7	22.8	23.3	24.1
	8H	18.2	18.7	18.9	19.4	20.2	23.0	23.5	23.6	24.2	24.9

Maximum UGR = 25.8

POLAR GRAPH



Maximum Candela = 438.998 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.)