



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-835-DIM-UNV\_.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] 1-SEP-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-L65-835-DIM-UNV

[LAMPCAT] HLM 80 CRI 3500K 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	5994
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	142
Total Luminaire Watts	42.3
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	21586	17418	16468
55	18300	14601	14757
65	14370	12477	13405
75	9896	10199	11893
85	4421	8652	10425

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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	2022.414	2022.414	2022.414	2022.414	2022.414
5	2039.809	2014.174	2013.259	2008.681	1984.877
10	2005.019	1982.131	1983.962	1978.469	1956.496
15	1949.171	1927.199	1932.692	1927.199	1908.888
20	1855.787	1839.307	1855.787	1847.547	1828.321
25	1740.430	1734.021	1748.670	1747.754	1719.372
30	1613.171	1615.917	1632.397	1632.397	1597.606
35	1457.530	1479.503	1487.742	1490.489	1454.783
40	1288.156	1321.115	1313.791	1328.440	1310.129
45	1122.444	1151.741	1149.910	1176.461	1171.883
50	953.071	979.621	1000.678	1045.540	1054.695
55	779.119	812.078	858.771	925.605	955.817
60	615.239	655.522	735.174	817.572	856.940
65	457.767	521.854	621.647	715.947	756.231
70	314.028	398.257	505.375	607.914	655.522
75	199.586	280.153	401.004	503.544	551.151
80	108.949	186.769	314.944	408.328	452.274
85	34.790	114.442	238.954	322.268	363.467
90	0.000	74.158	182.191	260.012	288.393
95	0.000	67.749	170.289	238.039	254.518
100	0.000	64.087	158.387	216.982	231.630
105	0.000	58.594	148.316	200.502	215.150
110	0.000	54.932	138.246	187.684	202.333
115	0.000	50.354	126.344	175.782	189.515
120	0.000	43.030	113.526	159.303	175.782
125	0.000	35.706	102.540	145.570	160.218
130	0.000	29.297	88.807	130.006	140.077
135	0.000	26.550	71.412	112.611	122.682
140	0.000	21.973	55.848	94.300	104.371
145	0.000	17.395	43.030	73.243	83.314
150	0.000	12.817	32.959	55.848	64.087
155	0.000	10.071	26.550	40.283	46.692
160	0.000	0.000	19.226	29.297	32.959
165	0.000	0.000	12.817	21.057	22.888
170	0.000	0.000	0.000	12.817	13.733
175	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	734.18	N.A.	12.20
0-30	1535.73	N.A.	25.60
0-40	2458.4	N.A.	41.00
0-60	4130.97	N.A.	68.90
0-80	5158.71	N.A.	86.10
0-90	5404.12	N.A.	90.20
10-90	5213.03	N.A.	87.00
20-40	1724.22	N.A.	28.80
20-50	2619.13	N.A.	43.70
40-70	2283.92	N.A.	38.10
60-80	1027.74	N.A.	17.10
70-80	416.40	N.A.	6.90
80-90	245.41	N.A.	4.10
90-110	301.97	N.A.	5.00
90-120	412.51	N.A.	6.90
90-130	493.95	N.A.	8.20
90-150	574.77	N.A.	9.60
90-180	589.91	N.A.	9.80
110-180	287.95	N.A.	4.80
0-180	5994.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	191.09
10-20	543.09
20-30	801.55
30-40	922.67
40-50	894.92
50-60	777.66
60-70	611.34
70-80	416.40
80-90	245.41
90-100	165.22
100-110	136.74
110-120	110.54
120-130	81.44
130-140	52.78
140-150	28.04
150-160	11.73
160-170	3.24
170-180	0.18

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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	19.3	20.7	19.8	21.2	21.8	21.5	23.0	22.1	23.5	24.0
	3H	20.5	21.7	21.0	22.3	22.8	23.9	25.2	24.5	25.7	26.3
	4H	20.8	22.0	21.3	22.5	23.1	25.1	26.3	25.6	26.8	27.4
	6H	20.9	22.1	21.5	22.6	23.2	26.2	27.3	26.8	27.9	28.5
	8H	20.9	22.0	21.5	22.6	23.2	26.8	27.9	27.4	28.4	29.1
	12H	20.9	22.0	21.5	22.5	23.2	27.4	28.4	28.0	29.0	29.7

UGR Viewed Endwise

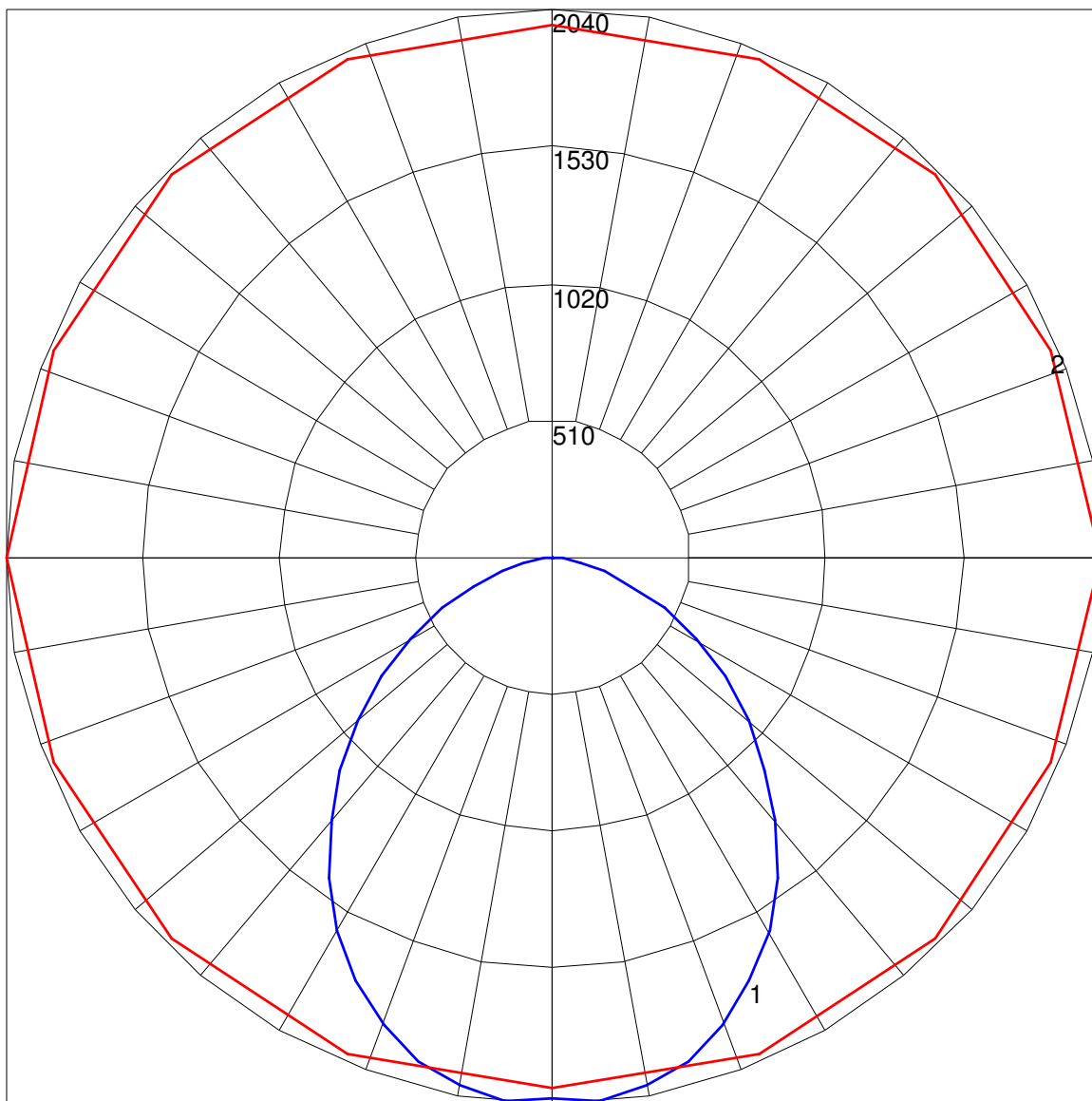
4H	2H	20.1	21.3	20.6	21.8	22.5	21.9	23.1	22.4	23.6	24.3
	3H	21.5	22.5	22.1	23.1	23.8	24.5	25.5	25.1	26.1	26.7
	4H	22.0	22.9	22.5	23.5	24.1	25.8	26.7	26.4	27.3	28.0
	6H	22.2	23.0	22.8	23.7	24.3	27.1	27.9	27.7	28.5	29.2
	8H	22.3	23.0	22.9	23.7	24.3	27.8	28.6	28.4	29.2	29.9
	12H	22.3	23.0	22.9	23.6	24.3	28.5	29.2	29.1	29.9	30.6

8H	4H	22.6	23.4	23.2	24.0	24.7	25.9	26.7	26.5	27.3	28.0
	6H	23.0	23.7	23.7	24.3	25.0	27.4	28.1	28.1	28.7	29.4
	8H	23.2	23.7	23.8	24.4	25.1	28.2	28.8	28.9	29.5	30.2
	12H	23.2	23.7	23.9	24.4	25.2	29.1	29.6	29.8	30.3	31.1

12H	4H	22.8	23.5	23.4	24.1	24.8	25.9	26.6	26.5	27.3	28.0
	6H	23.3	23.9	24.0	24.5	25.3	27.4	28.0	28.1	28.6	29.4
	8H	23.5	24.0	24.2	24.7	25.5	28.3	28.8	28.9	29.5	30.2

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 2039.809 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.)