



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-840-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] 06-03-2024  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO.64836  
 [LUMINAIRE] 4' LED STRIP LUMINAIRE  
 [MORE] WITH FROSTED ACRYLIC LENS  
 [LUMCAT] 75S-4-L65-840-DIM-UNV  
 [LAMPCAT] HLM 80 CRI 4000K CCT  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Commercial, Industrial, Manufacturing,  
 [\_SEARCH\_MOUNTING] Surface, Suspended

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6174
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
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	22233	17940	16962
55	18849	15039	15199
65	14801	12851	13807
75	10193	10505	12250
85	4554	8911	10738

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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	2083.087	2083.087	2083.087	2083.087	2083.087
5	2101.004	2074.600	2073.657	2068.942	2044.424
10	2065.170	2041.595	2043.481	2037.823	2015.191
15	2007.647	1985.015	1990.673	1985.015	1966.155
20	1911.461	1894.487	1911.461	1902.974	1883.171
25	1792.643	1786.042	1801.130	1800.187	1770.954
30	1661.566	1664.395	1681.369	1681.369	1645.535
35	1501.256	1523.888	1532.375	1535.204	1498.427
40	1326.801	1360.749	1353.205	1368.293	1349.433
45	1156.118	1186.294	1184.408	1211.755	1207.040
50	981.663	1009.010	1030.699	1076.906	1086.336
55	802.493	836.441	884.534	953.373	984.492
60	633.696	675.188	757.229	842.099	882.648
65	471.500	537.510	640.297	737.426	778.918
70	323.449	410.205	520.536	626.152	675.188
75	205.574	288.558	413.034	518.650	567.686
80	112.217	192.372	324.392	420.578	465.842
85	35.834	117.875	246.123	331.936	374.371
90	0.000	76.383	187.657	267.812	297.045
95	0.000	69.782	175.398	245.180	262.154
100	0.000	66.010	163.139	223.491	238.579
105	0.000	60.352	152.766	206.517	221.605
110	0.000	56.580	142.393	193.315	208.403
115	0.000	51.865	130.134	181.056	195.201
120	0.000	44.321	116.932	164.082	181.056
125	0.000	36.777	105.616	149.937	165.025
130	0.000	30.176	91.471	133.906	144.279
135	0.000	27.347	73.554	115.989	126.362
140	0.000	22.632	57.523	97.129	107.502
145	0.000	17.917	44.321	75.440	85.813
150	0.000	13.202	33.948	57.523	66.010
155	0.000	10.373	27.347	41.492	48.093
160	0.000	0.000	19.803	30.176	33.948
165	0.000	0.000	13.202	21.689	23.575
170	0.000	0.000	0.000	13.202	14.145
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	756.20	N.A.	12.20
0-30	1581.8	N.A.	25.60
0-40	2532.15	N.A.	41.00
0-60	4254.9	N.A.	68.90
0-80	5313.48	N.A.	86.10
0-90	5566.24	N.A.	90.20
10-90	5369.42	N.A.	87.00
20-40	1775.94	N.A.	28.80
20-50	2697.71	N.A.	43.70
40-70	2352.44	N.A.	38.10
60-80	1058.58	N.A.	17.10
70-80	428.89	N.A.	6.90
80-90	252.77	N.A.	4.10
90-110	311.02	N.A.	5.00
90-120	424.88	N.A.	6.90
90-130	508.77	N.A.	8.20
90-150	592.01	N.A.	9.60
90-180	607.61	N.A.	9.80
110-180	296.59	N.A.	4.80
0-180	6173.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.82
10-20	559.38
20-30	825.59
30-40	950.35
40-50	921.77
50-60	800.99
60-70	629.69
70-80	428.89
80-90	252.77
90-100	170.18
100-110	140.85
110-120	113.86
120-130	83.88
130-140	54.36
140-150	28.89
150-160	12.09
160-170	3.33
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**

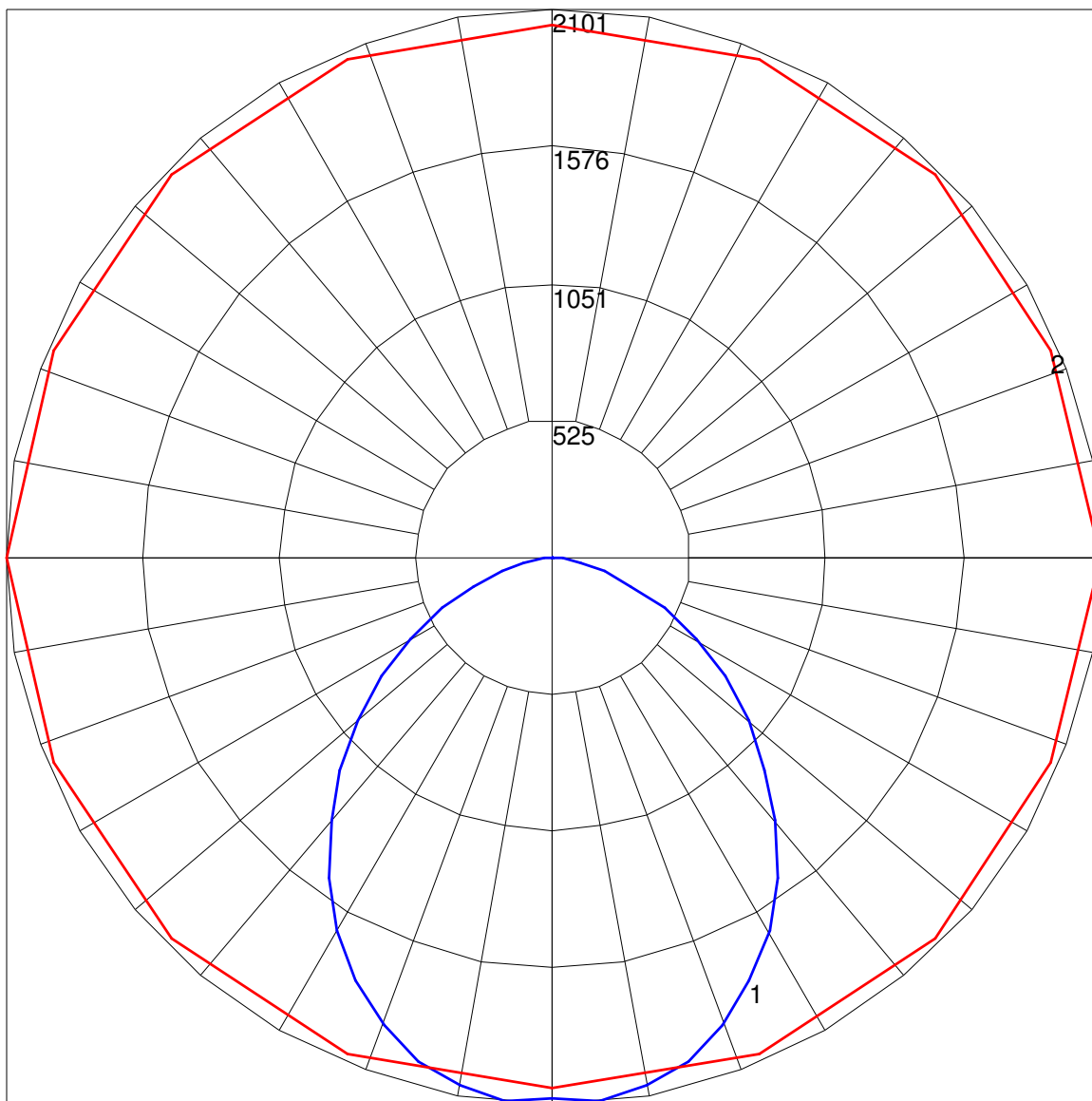
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	19.4	20.8	19.9	21.3	21.9	21.6	23.1	22.2	23.6	24.1
	3H	20.6	21.8	21.1	22.4	22.9	24.0	25.3	24.6	25.8	26.4
	4H	20.9	22.1	21.4	22.6	23.2	25.2	26.4	25.7	26.9	27.5
	6H	21.0	22.2	21.6	22.7	23.3	26.3	27.4	26.9	28.0	28.6
	8H	21.0	22.1	21.6	22.7	23.3	26.9	28.0	27.5	28.5	29.2
	12H	21.0	22.1	21.6	22.6	23.3	27.5	28.5	28.1	29.1	29.8
4H	2H	20.2	21.4	20.7	21.9	22.6	22.0	23.2	22.5	23.7	24.4
	3H	21.6	22.6	22.2	23.2	23.9	24.6	25.6	25.2	26.2	26.8
	4H	22.1	23.0	22.6	23.6	24.2	25.9	26.8	26.5	27.4	28.1
	6H	22.3	23.1	22.9	23.8	24.4	27.2	28.0	27.8	28.6	29.3
	8H	22.4	23.1	23.0	23.8	24.4	27.9	28.7	28.5	29.3	30.0
	12H	22.4	23.1	23.0	23.7	24.4	28.6	29.3	29.3	30.0	30.7
8H	4H	22.7	23.5	23.3	24.1	24.8	26.0	26.8	26.6	27.4	28.1
	6H	23.1	23.8	23.8	24.4	25.1	27.5	28.2	28.2	28.8	29.5
	8H	23.3	23.8	23.9	24.5	25.2	28.3	28.9	29.0	29.6	30.3
	12H	23.3	23.8	24.0	24.5	25.3	29.2	29.7	29.9	30.4	31.2
12H	4H	22.9	23.6	23.5	24.2	24.9	26.0	26.7	26.6	27.4	28.1
	6H	23.4	24.0	24.1	24.6	25.4	27.5	28.1	28.2	28.7	29.5
	8H	23.6	24.1	24.3	24.8	25.6	28.4	28.9	29.0	29.6	30.3

Maximum UGR = 31.2

POLAR GRAPH



Maximum Candela = 2101.004 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.)