



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L65-840-(L60)-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] 01-10-2024

[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-(L60)-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	6210
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	40.6
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	22364	18046	17062
55	18960	15127	15288
65	14888	12926	13888
75	10253	10566	12321
85	4581	8963	10801

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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	2095.294	2095.294	2095.294	2095.294	2095.294
5	2113.316	2086.757	2085.809	2081.066	2056.404
10	2077.272	2053.559	2055.456	2049.765	2027.000
15	2019.412	1996.647	2002.338	1996.647	1977.677
20	1922.662	1905.589	1922.662	1914.126	1894.206
25	1803.148	1796.508	1811.685	1810.736	1781.332
30	1671.303	1674.148	1691.222	1691.222	1655.178
35	1510.053	1532.818	1541.355	1544.200	1507.208
40	1334.576	1368.723	1361.135	1376.311	1357.341
45	1162.893	1193.246	1191.349	1218.856	1214.113
50	987.416	1014.923	1036.739	1083.217	1092.702
55	807.196	841.343	889.717	958.960	990.261
60	637.409	679.145	761.666	847.034	887.820
65	474.263	540.660	644.049	741.747	783.482
70	325.344	412.609	523.586	629.821	679.145
75	206.779	290.249	415.454	521.689	571.013
80	112.875	193.499	326.293	423.043	468.572
85	36.044	118.566	247.565	333.881	376.565
90	0.000	76.831	188.757	269.381	298.786
95	0.000	70.191	176.426	246.617	263.690
100	0.000	66.397	164.095	224.801	239.977
105	0.000	60.706	153.661	207.727	222.904
110	0.000	56.912	143.227	194.448	209.624
115	0.000	52.169	130.897	182.117	196.345
120	0.000	44.581	117.617	165.044	182.117
125	0.000	36.993	106.235	150.816	165.992
130	0.000	30.353	92.007	134.691	145.124
135	0.000	27.507	73.985	116.669	127.102
140	0.000	22.765	57.860	97.698	108.132
145	0.000	18.022	44.581	75.882	86.316
150	0.000	13.279	34.147	57.860	66.397
155	0.000	10.434	27.507	41.735	48.375
160	0.000	0.000	19.919	30.353	34.147
165	0.000	0.000	13.279	21.816	23.713
170	0.000	0.000	0.000	13.279	14.228
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	760.64	N.A.	12.20
0-30	1591.07	N.A.	25.60
0-40	2546.99	N.A.	41.00
0-60	4279.83	N.A.	68.90
0-80	5344.61	N.A.	86.10
0-90	5598.86	N.A.	90.20
10-90	5400.89	N.A.	87.00
20-40	1786.35	N.A.	28.80
20-50	2713.52	N.A.	43.70
40-70	2366.22	N.A.	38.10
60-80	1064.78	N.A.	17.10
70-80	431.41	N.A.	6.90
80-90	254.25	N.A.	4.10
90-110	312.85	N.A.	5.00
90-120	427.37	N.A.	6.90
90-130	511.75	N.A.	8.20
90-150	595.48	N.A.	9.60
90-180	611.17	N.A.	9.80
110-180	298.33	N.A.	4.80
0-180	6210.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	197.98
10-20	562.66
20-30	830.43
30-40	955.92
40-50	927.17
50-60	805.68
60-70	633.38
70-80	431.41
80-90	254.25
90-100	171.18
100-110	141.67
110-120	114.53
120-130	84.37
130-140	54.68
140-150	29.05
150-160	12.16
160-170	3.35
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

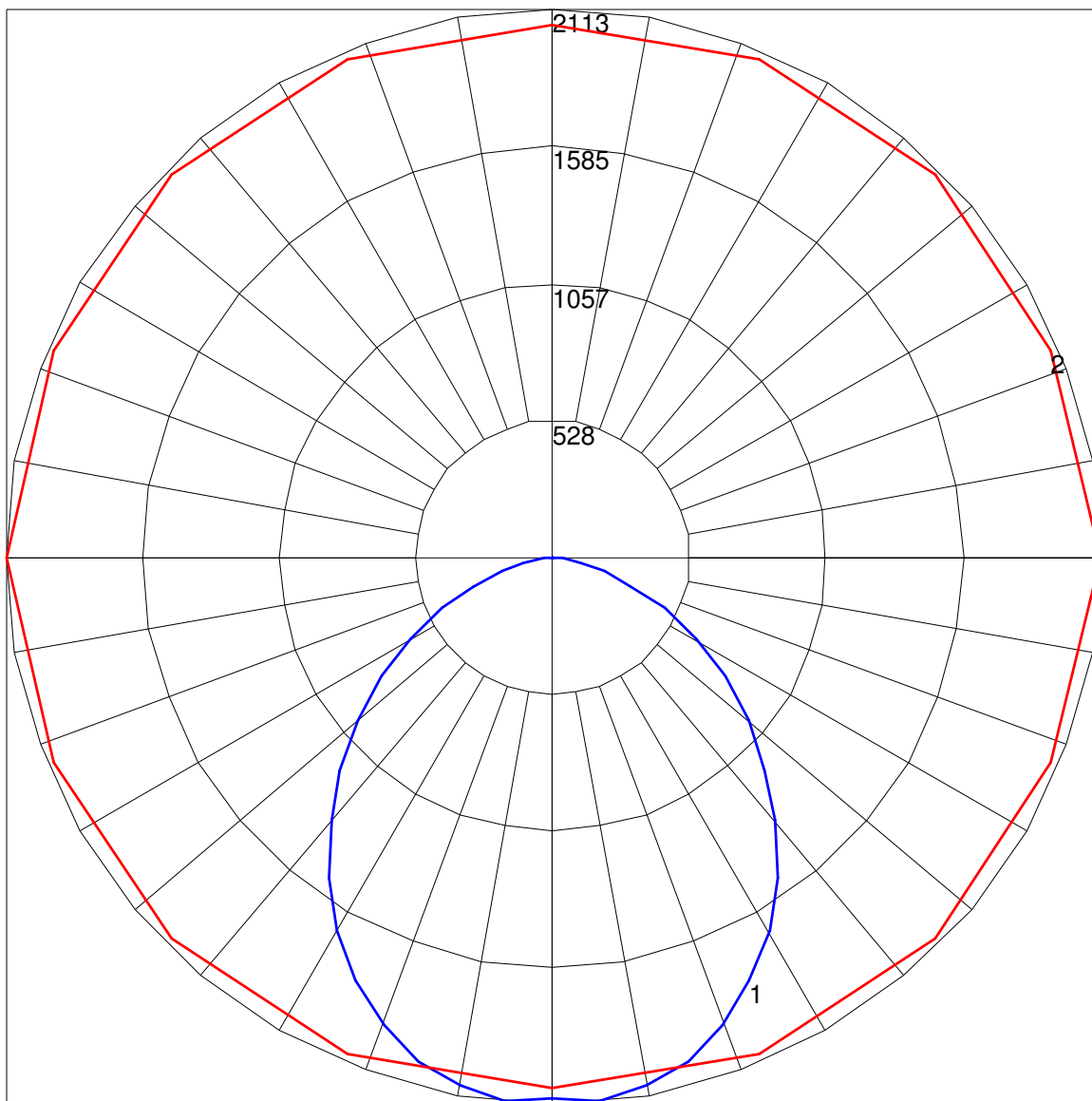
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**UGR TABLE - CORRECTED**

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	23.2	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 = 2113.316 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.)