



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75S-4-L85-940-(L77)-WG-75-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] 17 JUL, 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-L85-940-(L77)-WG-75-DIM-UNV

[LAMPCAT] HLM 90 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	6759
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	53.6
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	24341	19641	18570
55	20636	16465	16640
65	16204	14069	15116
75	11159	11500	13411
85	4986	9756	11756

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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	2280.543	2280.543	2280.543	2280.543	2280.543
5	2300.158	2271.251	2270.219	2265.057	2238.215
10	2260.928	2235.118	2237.183	2230.988	2206.211
15	2197.952	2173.175	2179.369	2173.175	2152.527
20	2092.648	2074.066	2092.648	2083.357	2061.677
25	1962.568	1955.341	1971.859	1970.827	1938.823
30	1819.066	1822.163	1840.746	1840.746	1801.515
35	1643.560	1668.337	1677.629	1680.726	1640.463
40	1452.569	1489.734	1481.475	1497.994	1477.346
45	1265.706	1298.743	1296.678	1326.617	1321.455
50	1074.715	1104.654	1128.399	1178.986	1189.310
55	878.561	915.727	968.379	1043.743	1077.812
60	693.764	739.189	829.007	921.922	966.314
65	516.194	588.461	700.991	807.327	852.752
70	354.109	449.088	569.878	685.505	739.189
75	225.060	315.910	452.186	567.813	621.497
80	122.854	210.607	355.141	460.445	509.999
85	39.231	129.048	269.453	363.400	409.858
90	0.000	83.623	205.445	293.198	325.202
95	0.000	76.397	192.024	268.421	287.004
100	0.000	72.267	178.603	244.676	261.194
105	0.000	66.073	167.247	226.093	242.611
110	0.000	61.943	155.890	211.639	228.158
115	0.000	56.781	142.469	198.218	213.704
120	0.000	48.522	128.016	179.635	198.218
125	0.000	40.263	115.627	164.150	180.668
130	0.000	33.036	100.142	146.599	157.955
135	0.000	29.939	80.526	126.984	138.340
140	0.000	24.777	62.976	106.336	117.692
145	0.000	19.615	48.522	82.591	93.947
150	0.000	14.453	37.166	62.976	72.267
155	0.000	11.356	29.939	45.425	52.652
160	0.000	0.000	21.680	33.036	37.166
165	0.000	0.000	14.453	23.745	25.810
170	0.000	0.000	0.000	14.453	15.486
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**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	827.89	N.A.	12.20
0-30	1731.74	N.A.	25.60
0-40	2772.17	N.A.	41.00
0-60	4658.22	N.A.	68.90
0-80	5817.14	N.A.	86.10
0-90	6093.87	N.A.	90.20
10-90	5878.39	N.A.	87.00
20-40	1944.29	N.A.	28.80
20-50	2953.42	N.A.	43.70
40-70	2575.42	N.A.	38.10
60-80	1158.92	N.A.	17.10
70-80	469.55	N.A.	6.90
80-90	276.73	N.A.	4.10
90-110	340.51	N.A.	5.00
90-120	465.16	N.A.	6.90
90-130	556.99	N.A.	8.20
90-150	648.13	N.A.	9.60
90-180	665.21	N.A.	9.80
110-180	324.70	N.A.	4.80
0-180	6759.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	215.48
10-20	612.41
20-30	903.85
30-40	1040.43
40-50	1009.14
50-60	876.91
60-70	689.37
70-80	469.55
80-90	276.73
90-100	186.31
100-110	154.20
110-120	124.65
120-130	91.83
130-140	59.51
140-150	31.62
150-160	13.23
160-170	3.65
170-180	0.20

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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	19.7	21.1	20.2	21.6	22.2	21.9	23.4	22.5	23.9	24.4
	3H	20.9	22.1	21.4	22.7	23.2	24.3	25.6	24.9	26.1	26.7
	4H	21.2	22.4	21.7	22.9	23.5	25.5	26.7	26.0	27.2	27.8
	6H	21.3	22.5	21.9	23.0	23.6	26.6	27.7	27.2	28.3	28.9
	8H	21.3	22.4	21.9	23.0	23.6	27.2	28.3	27.8	28.8	29.5
	12H	21.3	22.4	21.9	22.9	23.6	27.8	28.8	28.4	29.4	30.1

### UGR Viewed Endwise

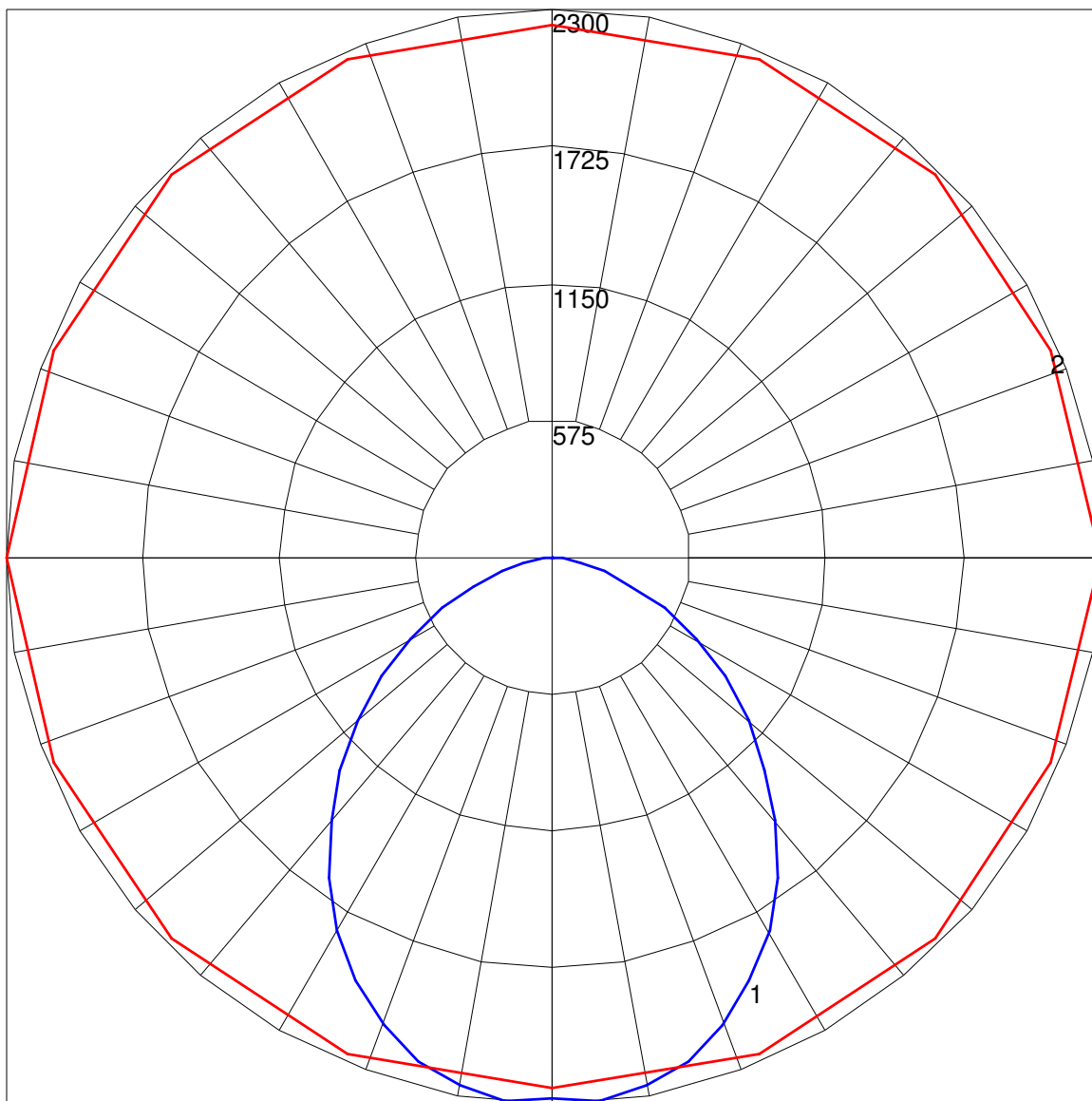
4H	2H	20.5	21.7	21.0	22.2	22.9	22.3	23.5	22.8	24.0	24.7
	3H	21.9	22.9	22.5	23.5	24.2	24.9	25.9	25.5	26.5	27.1
	4H	22.4	23.3	22.9	23.9	24.5	26.2	27.1	26.8	27.7	28.4
	6H	22.6	23.4	23.2	24.1	24.7	27.5	28.3	28.1	28.9	29.6
	8H	22.7	23.4	23.3	24.1	24.7	28.2	29.0	28.8	29.6	30.3
	12H	22.7	23.4	23.3	24.0	24.7	28.9	29.6	29.5	30.3	31.0

8H	4H	23.0	23.8	23.6	24.4	25.1	26.3	27.1	26.9	27.7	28.4
	6H	23.4	24.1	24.1	24.7	25.4	27.8	28.5	28.5	29.1	29.8
	8H	23.6	24.1	24.2	24.8	25.5	28.6	29.2	29.3	29.9	30.6
	12H	23.6	24.1	24.3	24.8	25.6	29.5	30.0	30.2	30.7	31.5

12H	4H	23.2	23.9	23.8	24.5	25.2	26.3	27.0	26.9	27.7	28.4
	6H	23.7	24.3	24.4	24.9	25.7	27.8	28.4	28.5	29.0	29.8
	8H	23.9	24.4	24.6	25.1	25.9	28.7	29.2	29.3	29.9	30.6

Maximum UGR = 31.5

POLAR GRAPH



Maximum Candela = 2300.158 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.)