



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75R-4-L85-840-(L70)-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 19750.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 02-13-2023

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 2-56 LED 22"ARRAYS 4'SURFACE MOUNT LED STRIP

[MORE] WHITE REFLECTOR w/FROSTED ACRYLIC ROUND LENS

[LUMCAT] 75R-4-L85-840-(L70)-DIM-UNV

[LAMPCAT] HLM 80 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	7244
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	162
Total Luminaire Watts	44.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.72 ft
Luminous Width (90-270)	0.21 ft
Luminous Height	0.10 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	25332	21419	21381
55	20907	18330	18823
65	17219	15397	15857
75	11635	12651	12993
85	6827	10866	10654

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L85-840-(L70)-DIM-UNV\_.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	2320.162	2320.162	2320.162	2320.162	2320.162
<b>5</b>	2345.634	2311.302	2312.410	2306.872	2283.616
<b>10</b>	2306.872	2278.078	2283.616	2280.293	2259.251
<b>15</b>	2239.316	2218.274	2233.779	2240.424	2218.274
<b>20</b>	2137.429	2131.891	2158.471	2169.545	2156.256
<b>25</b>	2017.821	2025.574	2063.228	2088.700	2078.732
<b>30</b>	1880.494	1891.569	1955.803	1994.564	1992.349
<b>35</b>	1713.265	1733.200	1826.228	1880.494	1888.247
<b>40</b>	1534.962	1549.359	1666.751	1748.705	1767.532
<b>45</b>	1324.541	1361.088	1496.200	1604.733	1631.312
<b>50</b>	1106.369	1165.065	1330.079	1448.579	1481.803
<b>55</b>	897.056	973.471	1159.527	1283.565	1331.186
<b>60</b>	722.074	792.953	995.621	1119.658	1169.495
<b>65</b>	554.845	632.369	842.789	955.752	998.943
<b>70</b>	388.724	492.827	697.710	796.275	838.359
<b>75</b>	239.215	372.112	563.705	656.733	693.280
<b>80</b>	132.897	256.934	449.635	536.018	559.275
<b>85</b>	56.481	177.196	358.822	433.023	448.528
<b>90</b>	7.752	121.822	277.976	343.318	364.360
<b>95</b>	1.107	83.061	222.603	272.439	294.589
<b>100</b>	0.000	54.266	172.766	222.603	240.322
<b>105</b>	0.000	38.762	134.005	181.626	196.023
<b>110</b>	0.000	26.579	102.995	148.402	160.584
<b>115</b>	0.000	22.150	84.168	124.037	132.897
<b>120</b>	0.000	16.612	64.234	101.888	110.748
<b>125</b>	0.000	9.967	47.621	80.846	90.813
<b>130</b>	0.000	6.645	34.332	63.126	71.986
<b>135</b>	0.000	3.322	25.472	49.836	56.481
<b>140</b>	0.000	3.322	17.720	38.762	44.299
<b>145</b>	0.000	0.000	11.075	24.364	31.009
<b>150</b>	0.000	0.000	7.752	17.720	22.150
<b>155</b>	0.000	0.000	5.537	8.860	14.397
<b>160</b>	0.000	0.000	2.215	6.645	7.752
<b>165</b>	0.000	0.000	0.000	2.215	3.322
<b>170</b>	0.000	0.000	0.000	0.000	0.000
<b>175</b>	0.000	0.000	0.000	0.000	0.000
<b>180</b>	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L85-840-(L70)-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	848.42	N.A.	11.70
0-30	1796.11	N.A.	24.80
0-40	2927.00	N.A.	40.40
0-60	5088.39	N.A.	70.20
0-80	6433.69	N.A.	88.80
0-90	6771.81	N.A.	93.50
10-90	6552.15	N.A.	90.50
20-40	2078.58	N.A.	28.70
20-50	3224.45	N.A.	44.50
40-70	2958.24	N.A.	40.80
60-80	1345.3	N.A.	18.60
70-80	548.45	N.A.	7.60
80-90	338.12	N.A.	4.70
90-110	322.67	N.A.	4.50
90-120	396.65	N.A.	5.50
90-130	438.64	N.A.	6.10
90-150	468.62	N.A.	6.50
90-180	471.76	N.A.	6.50
110-180	149.09	N.A.	2.10
0-180	7243.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	219.66
10-20	628.76
20-30	947.69
30-40	1130.89
40-50	1145.87
50-60	1015.52
60-70	796.85
70-80	548.45
80-90	338.12
90-100	201.32
100-110	121.35
110-120	73.98
120-130	41.99
130-140	21.22
140-150	8.76
150-160	2.74
160-170	0.40
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L85-840-(L70)-DIM-UNV\_.IES**

**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	114	114	114	114	107	107	107	102	102	102	96	96	96	93
1	106	101	96	92	103	98	94	90	92	89	86	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	62
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	45	41	39
6	68	55	46	39	66	53	45	39	51	43	38	48	42	37	46	41	36	34
7	63	49	41	34	61	48	40	34	46	39	33	44	38	33	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27
9	55	41	33	28	53	41	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	24	22

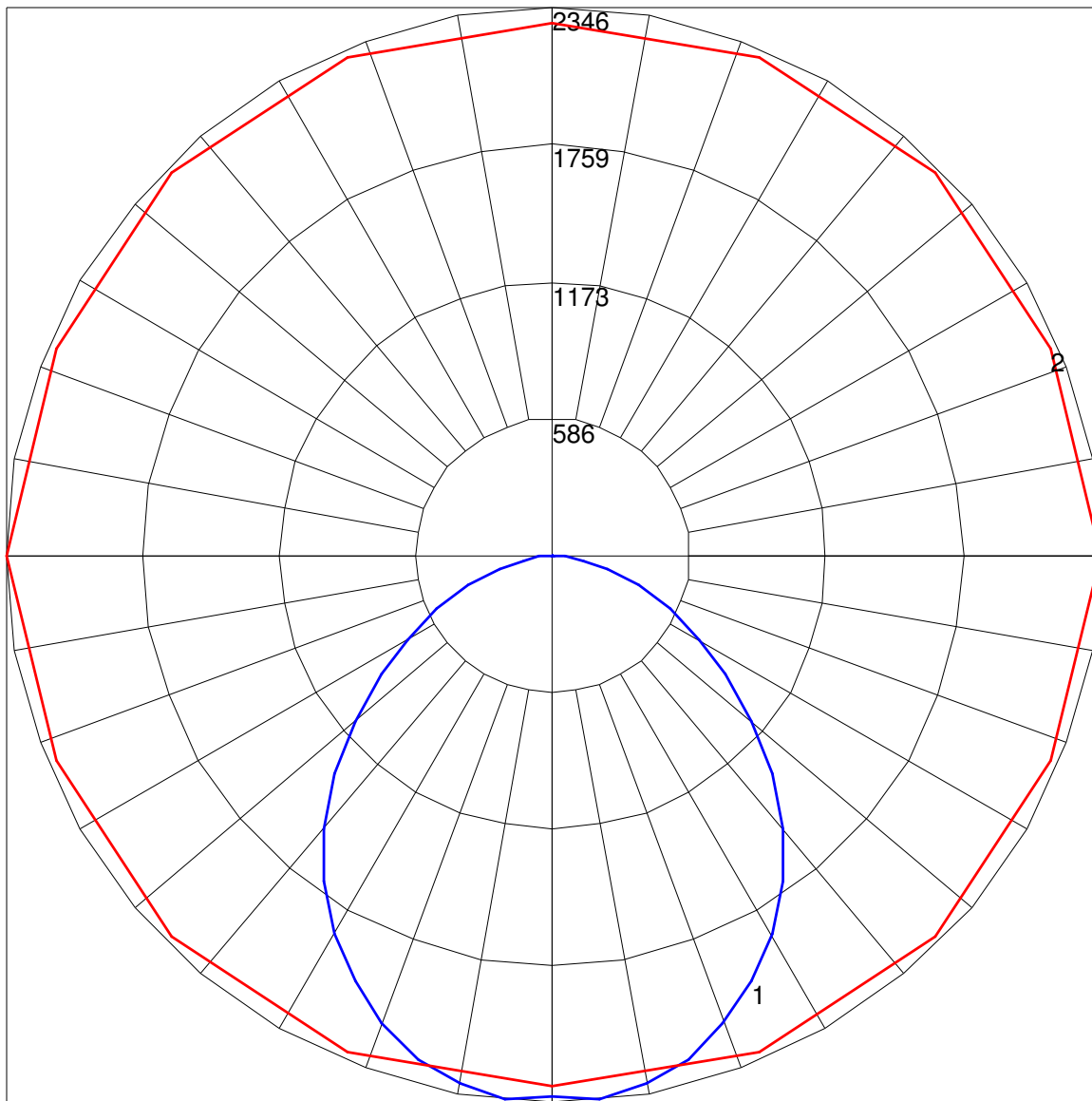
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 75R-4-L85-840-(L70)-DIM-UNV\_.IES**

**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	19.7	21.2	20.1	21.6	22.1	23.1	24.6	23.5	25.0	25.5
	3H	20.9	22.2	21.3	22.7	23.2	25.3	26.6	25.7	27.1	27.6
	4H	21.2	22.5	21.7	23.0	23.5	26.3	27.6	26.8	28.1	28.6
	6H	21.4	22.6	21.9	23.1	23.6	27.3	28.5	27.9	29.0	29.6
	8H	21.4	22.5	21.9	23.1	23.6	27.9	29.0	28.4	29.5	30.1
	12H	21.4	22.5	21.9	23.0	23.6	28.4	29.5	29.0	30.0	30.6
4H	2H	20.7	22.0	21.2	22.5	23.0	23.4	24.7	23.9	25.2	25.7
	3H	22.2	23.3	22.7	23.8	24.3	25.8	26.9	26.3	27.4	28.0
	4H	22.6	23.6	23.2	24.2	24.8	27.0	28.0	27.5	28.5	29.1
	6H	22.9	23.8	23.5	24.3	25.0	28.2	29.1	28.8	29.7	30.3
	8H	23.0	23.8	23.5	24.4	25.0	28.8	29.7	29.4	30.2	30.8
	12H	23.0	23.7	23.6	24.3	25.0	29.5	30.3	30.1	30.9	31.5
8H	4H	23.4	24.2	24.0	24.8	25.4	27.2	28.0	27.7	28.5	29.2
	6H	23.9	24.6	24.5	25.2	25.8	28.5	29.2	29.1	29.8	30.4
	8H	24.0	24.6	24.6	25.3	25.9	29.3	29.9	29.9	30.5	31.2
	12H	24.1	24.7	24.7	25.3	26.0	30.1	30.7	30.7	31.3	32.0
12H	4H	23.6	24.3	24.2	24.9	25.6	27.1	27.9	27.7	28.5	29.1
	6H	24.2	24.8	24.8	25.4	26.1	28.6	29.2	29.2	29.8	30.5
	8H	24.4	25.0	25.0	25.6	26.3	29.3	29.9	30.0	30.5	31.2

Maximum UGR = 32.0

POLAR GRAPH



Maximum Candela = 2345.634 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.)