



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-4-L35-8TW-DMA-DIM-UNV 4000K\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17956.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 44" LED STRIP SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFL w/.104"THK FROSTED ACRYLIC LENS

[LUMCAT] 75L-4-L35-8TW-DMA-DIM-UNV 4000k

[\_SEARCH\_SOURCETYPE]LED

[\_SEARCH\_APPLICATION]INDOOR,COMMERCIAL,INDUSTRIAL,DIRECT,LINEAR,MANUFACTURING,WAREHOUSE

[\_SEARCH\_MOUNTING]CEILING,SURFACE,SUSPENDED,WALL

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	34.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	22565	19828	17222
55	19464	16546	14029
65	16388	13336	11155
75	12875	10146	8544
85	8810	6343	5991

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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>
<b>0</b>	1560.070	1560.070	1560.070	1560.070	1560.070
<b>5</b>	1591.818	1556.542	1551.251	1537.141	1524.794
<b>10</b>	1561.834	1534.495	1522.149	1509.802	1491.282
<b>15</b>	1514.211	1492.164	1471.881	1457.770	1432.195
<b>20</b>	1450.715	1429.550	1403.093	1380.164	1351.061
<b>25</b>	1369.581	1347.534	1309.612	1283.155	1244.352
<b>30</b>	1276.100	1249.643	1199.375	1168.509	1119.123
<b>35</b>	1167.627	1138.525	1077.674	1033.579	987.721
<b>40</b>	1045.044	1014.178	948.918	894.240	846.618
<b>45</b>	916.288	878.366	805.169	759.310	699.342
<b>50</b>	780.476	747.846	671.121	620.853	574.113
<b>55</b>	641.137	620.853	545.010	495.624	462.112
<b>60</b>	512.380	494.742	429.482	389.797	361.576
<b>65</b>	397.734	376.569	323.655	297.198	270.741
<b>70</b>	291.907	265.450	229.292	207.245	191.371
<b>75</b>	191.371	169.324	150.804	130.520	126.993
<b>80</b>	110.237	91.717	82.016	71.433	73.197
<b>85</b>	44.095	31.748	31.748	26.457	29.984
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	562.06	N.A.	16.00
0-30	1165.19	N.A.	33.30
0-40	1840.9	N.A.	52.60
0-60	2965.96	N.A.	84.70
0-80	3462.18	N.A.	98.90
0-90	3502.38	N.A.	100.00
10-90	3355.22	N.A.	95.80
20-40	1278.84	N.A.	36.50
20-50	1906.83	N.A.	54.40
40-70	1456.44	N.A.	41.60
60-80	496.22	N.A.	14.20
70-80	164.84	N.A.	4.70
80-90	40.20	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3502.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	147.16
10-20	414.90
20-30	603.13
30-40	675.71
40-50	627.99
50-60	497.07
60-70	331.38
70-80	164.84
80-90	40.20
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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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	204	204	204	204	199	199	199	199	190	190	190	182	182	182	175	175	175	171
1	188	181	174	168	184	177	171	165	170	165	160	163	159	155	157	154	151	147
2	173	160	149	140	168	156	147	138	150	142	135	145	138	132	140	134	129	126
3	158	142	129	118	154	139	127	117	134	124	115	129	121	113	125	118	112	108
4	146	127	113	102	142	125	111	101	120	109	100	116	107	99	113	104	97	94
5	135	114	100	89	131	112	99	88	109	97	88	105	95	87	102	93	86	82
6	125	103	89	79	122	102	88	78	99	87	77	96	85	77	93	84	76	73
7	116	94	80	70	113	93	79	70	90	78	69	88	77	69	86	76	68	65
8	109	86	73	63	106	85	72	63	83	71	62	81	70	62	79	69	62	59
9	102	80	66	57	99	79	66	57	77	65	57	75	64	56	73	63	56	53
10	96	74	61	52	93	73	60	52	71	60	52	70	59	51	68	58	51	48

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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	20.4	21.9	20.8	22.3	22.6	18.7	20.2	19.0	20.5	20.8
	3H	21.9	23.3	22.3	23.6	24.0	20.0	21.4	20.3	21.7	22.0
	4H	22.4	23.7	22.8	24.1	24.4	20.4	21.7	20.8	22.0	22.4
	6H	22.8	24.0	23.2	24.3	24.7	20.7	21.9	21.1	22.3	22.7
	8H	22.9	24.0	23.3	24.4	24.8	20.8	21.9	21.2	22.3	22.7
	12H	22.9	24.0	23.4	24.4	24.8	20.8	21.9	21.3	22.3	22.7

UGR Viewed Endwise

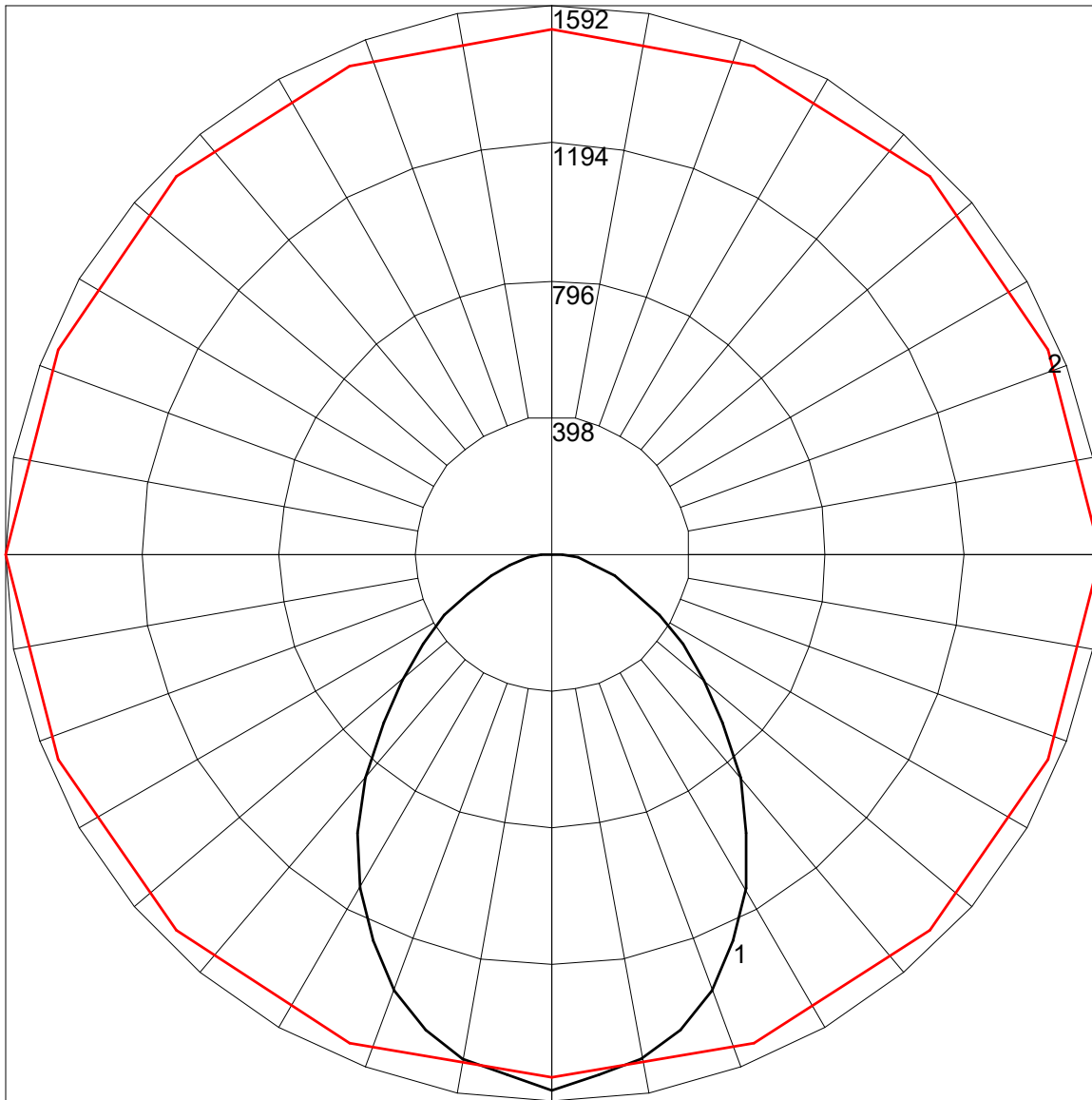
4H	2H	20.7	22.0	21.1	22.4	22.8	19.3	20.6	19.7	20.9	21.3
	3H	22.4	23.5	22.8	23.9	24.3	20.8	21.9	21.2	22.3	22.7
	4H	23.1	24.0	23.5	24.4	24.9	21.3	22.3	21.8	22.7	23.1
	6H	23.5	24.4	24.0	24.8	25.3	21.7	22.5	22.2	23.0	23.5
	8H	23.7	24.4	24.1	24.9	25.4	21.8	22.6	22.3	23.1	23.5
	12H	23.8	24.5	24.2	24.9	25.4	21.9	22.6	22.4	23.1	23.6

8H	4H	23.2	24.0	23.6	24.4	24.9	21.6	22.4	22.1	22.8	23.3
	6H	23.7	24.4	24.2	24.9	25.3	22.1	22.7	22.6	23.2	23.7
	8H	23.9	24.5	24.4	25.0	25.5	22.2	22.8	22.8	23.3	23.8
	12H	24.1	24.6	24.6	25.1	25.6	22.4	22.9	22.9	23.4	23.9

12H	4H	23.2	23.9	23.7	24.4	24.8	21.6	22.3	22.1	22.8	23.3
	6H	23.7	24.3	24.3	24.8	25.3	22.1	22.7	22.7	23.2	23.7
	8H	24.0	24.5	24.5	25.0	25.5	22.3	22.8	22.8	23.3	23.9

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 1591.818 Located At Horizontal Angle = 0, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)