



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L70-8TW-A12125-DIM-UNV 4000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 17755.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 23-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 89" LED SURFACE MOUNT LUMINAIRE

[MORE] WHITE REFLECTOR w/CLEAR PRISMATIC LENS

[LUMCAT] 75L-8-L70-8TW-AF12125-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	8059
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	68.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.22
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	7.44 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	26875	20780	16624
55	21519	14563	12172
65	15214	9735	10156
75	11561	7432	9496
85	11852	8787	10013

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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	3882.702	3882.702	3882.702	3882.702	3882.702
5	3948.403	3878.464	3857.270	3842.434	3831.837
10	3897.538	3836.076	3821.240	3804.285	3785.211
15	3821.240	3753.420	3721.630	3740.704	3711.033
20	3698.316	3632.616	3605.064	3615.661	3605.064
25	3520.289	3469.423	3431.275	3388.887	3382.529
30	3325.306	3259.605	3143.039	3049.786	2984.086
35	3070.980	2975.608	2774.267	2534.777	2337.675
40	2695.850	2606.836	2259.258	1890.486	1754.846
45	2261.377	2206.274	1748.488	1458.133	1398.790
50	1848.099	1754.846	1330.970	1140.226	1087.241
55	1468.730	1275.866	993.989	873.184	830.797
60	1085.122	873.184	733.305	650.649	648.530
65	765.096	608.262	489.577	491.696	510.770
70	525.606	411.160	328.504	383.608	392.085
75	356.056	281.877	228.893	279.758	292.474
80	250.087	201.341	178.028	194.983	201.341
85	122.924	114.446	91.133	103.850	103.850
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1424.5	N.A.	17.70
0-30	2998.71	N.A.	37.20
0-40	4700.38	N.A.	58.30
0-60	7076.38	N.A.	87.80
0-80	7947.09	N.A.	98.60
0-90	8059.11	N.A.	100.00
10-90	7691.26	N.A.	95.40
20-40	3275.89	N.A.	40.60
20-50	4680.44	N.A.	58.10
40-70	2942.39	N.A.	36.50
60-80	870.71	N.A.	10.80
70-80	304.32	N.A.	3.80
80-90	112.01	N.A.	1.40
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	8059.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	367.84
10-20	1056.65
20-30	1574.22
30-40	1701.67
40-50	1404.56
50-60	971.44
60-70	566.39
70-80	304.32
80-90	112.01
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	210	210	210	210	205	205	205	205	196	196	196	187	187	187	180	180	180	176
1	194	187	181	175	190	183	177	172	176	171	167	169	165	161	163	160	157	153
2	179	167	156	147	175	163	154	146	157	149	142	152	145	139	147	141	136	133
3	166	149	136	126	161	146	135	125	141	131	123	137	128	121	132	125	119	116
4	153	134	120	110	149	132	119	109	128	117	108	124	114	106	120	112	105	102
5	142	122	107	97	139	120	106	96	116	104	95	113	102	94	110	101	93	90
6	132	111	96	86	129	109	96	86	106	94	85	103	92	84	101	91	84	80
7	123	101	87	77	120	100	86	77	97	85	76	95	84	76	93	83	75	72
8	115	93	79	70	113	92	79	70	90	78	69	88	77	69	86	76	68	65
9	108	86	73	63	106	85	72	63	83	71	63	81	70	63	80	70	62	59
10	102	80	67	58	99	79	66	58	77	66	58	76	65	57	74	64	57	54

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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	21.2	20.1	21.5	21.8	17.1	18.5	17.4	18.8	19.1
	3H	20.8	22.1	21.2	22.5	22.8	18.6	19.9	18.9	20.2	20.6
	4H	21.3	22.5	21.7	22.9	23.2	19.2	20.4	19.6	20.8	21.2
	6H	21.7	22.9	22.2	23.2	23.6	19.8	20.9	20.2	21.3	21.7
	8H	21.9	23.0	22.3	23.4	23.8	20.0	21.1	20.5	21.5	21.9
	12H	22.1	23.1	22.5	23.5	23.9	20.2	21.2	20.6	21.6	22.0

UGR Viewed Endwise

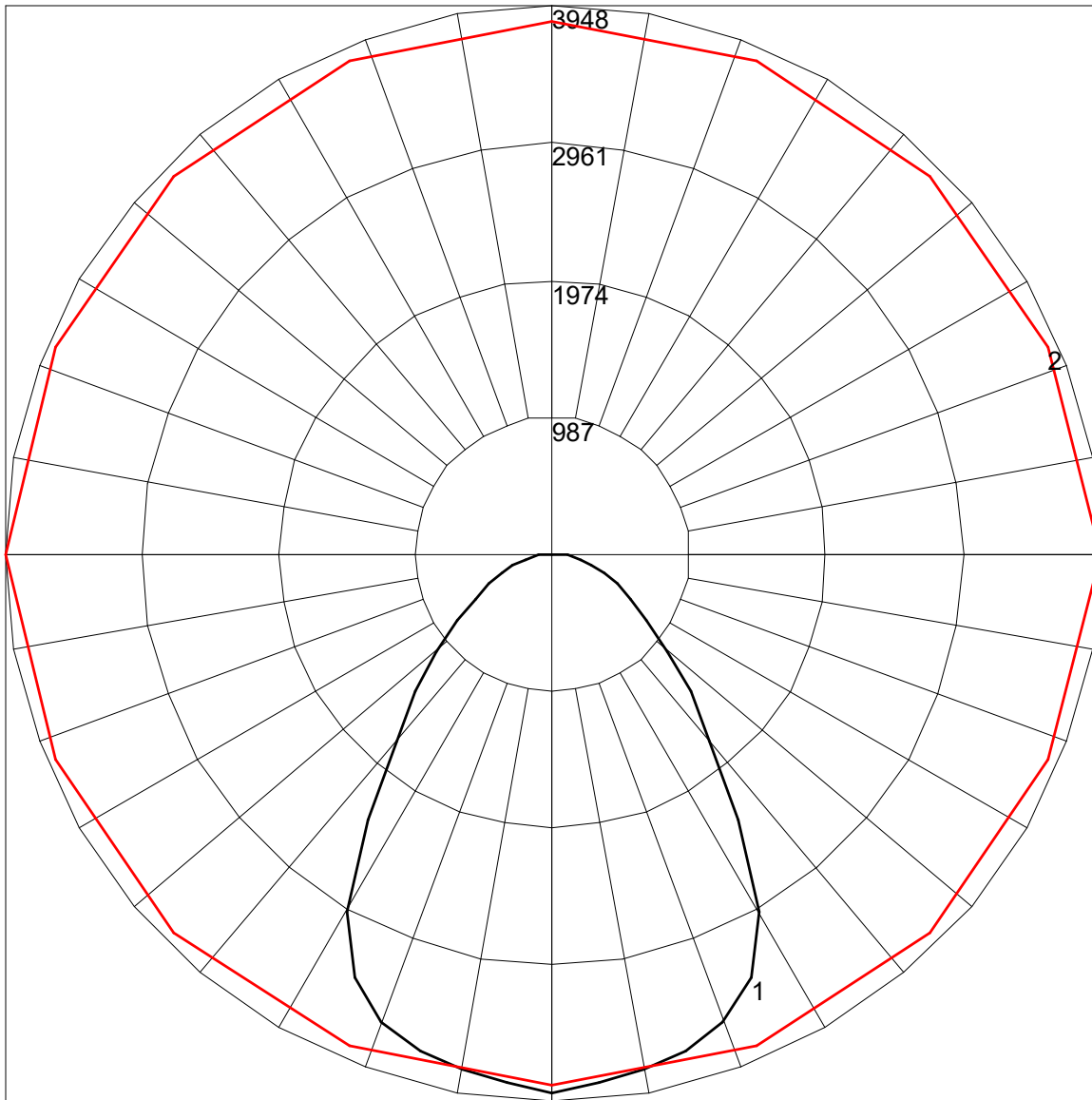
4H	2H	19.8	21.0	20.2	21.4	21.8	17.5	18.7	17.9	19.1	19.5
	3H	21.1	22.1	21.5	22.5	22.9	19.2	20.2	19.6	20.6	21.0
	4H	21.7	22.6	22.1	23.0	23.5	20.0	20.9	20.4	21.3	21.8
	6H	22.3	23.1	22.8	23.5	24.0	20.8	21.6	21.2	22.0	22.5
	8H	22.6	23.3	23.0	23.7	24.2	21.1	21.8	21.5	22.3	22.7
	12H	22.8	23.4	23.3	23.9	24.4	21.3	22.0	21.8	22.5	22.9

8H	4H	21.8	22.5	22.2	23.0	23.4	20.2	21.0	20.7	21.4	21.9
	6H	22.5	23.1	23.0	23.6	24.1	21.1	21.8	21.6	22.3	22.7
	8H	22.9	23.4	23.4	23.9	24.4	21.6	22.1	22.1	22.6	23.1
	12H	23.2	23.7	23.7	24.2	24.7	21.9	22.4	22.4	22.9	23.5

12H	4H	21.8	22.5	22.3	22.9	23.4	20.3	20.9	20.8	21.4	21.9
	6H	22.5	23.1	23.1	23.6	24.1	21.2	21.8	21.7	22.2	22.8
	8H	22.9	23.4	23.5	23.9	24.5	21.7	22.2	22.2	22.7	23.2

Maximum UGR = 24.7

POLAR GRAPH



Maximum Candela = 3948.403 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.)