



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-8-L130-8TW-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] 89" LED STRIP SURFACE MOUNT LUMINAIRE

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

[LUMCAT] 75L-8-L130-8TW-DMA-DIM-UNV 4000k

[_SEARCH_SOURCE]TYPE]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	13241
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	128.8
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)	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	42403	37260	32363
55	36577	31093	26363
65	30796	25060	20963
75	24195	19066	16056
85	16555	11920	11258

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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	5898.152	5898.152	5898.152	5898.152	5898.152
5	6018.182	5884.815	5864.810	5811.463	5764.785
10	5904.820	5801.461	5754.783	5708.104	5638.086
15	5724.775	5641.421	5564.735	5511.388	5414.697
20	5484.715	5404.694	5304.669	5217.981	5107.953
25	5177.971	5094.616	4951.247	4851.222	4704.518
30	4824.548	4724.523	4534.475	4417.779	4231.065
35	4414.445	4304.417	4074.359	3907.651	3734.274
40	3950.995	3834.299	3587.570	3380.851	3200.806
45	3464.206	3320.836	3044.100	2870.723	2643.999
50	2950.743	2827.379	2537.306	2347.258	2170.547
55	2423.944	2347.258	2060.519	1873.805	1747.107
60	1937.154	1870.471	1623.742	1473.704	1367.011
65	1503.712	1423.692	1223.641	1123.616	1023.591
70	1103.611	1003.586	866.885	783.531	723.516
75	723.516	640.161	570.144	493.458	480.121
80	416.772	346.754	310.078	270.068	276.736
85	166.709	120.030	120.030	100.025	113.362
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2124.97	N.A.	16.00
0-30	4405.23	N.A.	33.30
0-40	6959.88	N.A.	52.60
0-60	11213.39	N.A.	84.70
0-80	13089.45	N.A.	98.90
0-90	13241.45	N.A.	100.00
10-90	12685.09	N.A.	95.80
20-40	4834.91	N.A.	36.50
20-50	7209.14	N.A.	54.40
40-70	5506.35	N.A.	41.60
60-80	1876.06	N.A.	14.20
70-80	623.21	N.A.	4.70
80-90	152.00	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	13241.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	556.36
10-20	1568.61
20-30	2280.25
30-40	2554.66
40-50	2374.23
50-60	1879.28
60-70	1252.84
70-80	623.21
80-90	152.00
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	225	225	225	225	220	220	220	220	210	210	210	201	201	201	193	193	193	189
1	208	200	192	186	203	195	189	183	187	182	177	180	176	171	173	170	166	163
2	191	176	164	154	186	173	162	153	166	157	149	160	152	146	154	148	143	139
3	175	156	142	131	170	154	140	130	148	137	127	143	133	125	138	130	123	119
4	161	140	124	113	157	137	123	112	133	120	110	129	118	109	125	115	107	103
5	149	126	110	98	145	124	109	98	120	107	97	116	105	96	113	103	95	91
6	138	114	98	87	135	112	97	86	109	96	86	106	94	85	103	92	84	80
7	128	104	88	77	125	103	88	77	100	86	76	97	85	76	95	84	75	72
8	120	95	80	69	117	94	79	69	92	78	69	89	77	68	87	76	68	65
9	112	88	73	63	110	87	73	63	85	72	63	83	71	62	81	70	62	59
10	105	81	67	57	103	80	67	57	79	66	57	77	65	57	75	64	57	53

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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

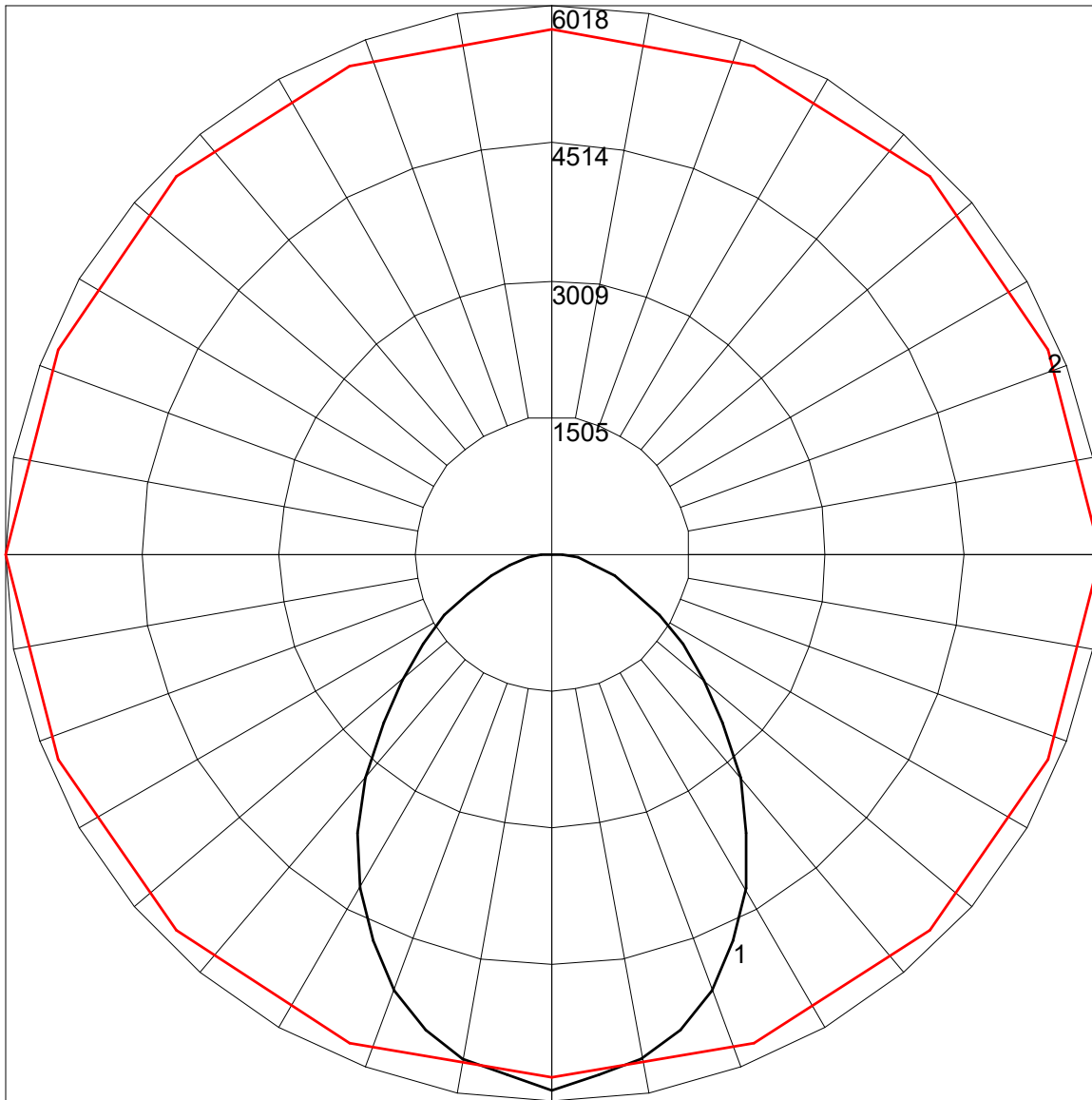
X=2H	Y=2H	22.3	23.8	22.7	24.1	24.4	20.5	22.1	20.9	22.4	22.7
	3H	23.8	25.1	24.1	25.5	25.8	21.8	23.2	22.2	23.5	23.9
	4H	24.3	25.6	24.7	25.9	26.3	22.3	23.6	22.7	23.9	24.3
	6H	24.6	25.8	25.0	26.2	26.6	22.6	23.8	23.0	24.1	24.5
	8H	24.8	25.9	25.2	26.3	26.7	22.7	23.8	23.1	24.2	24.6
	12H	24.8	25.9	25.2	26.3	26.7	22.7	23.8	23.1	24.2	24.6

UGR Viewed Endwise

4H	2H	22.6	23.9	23.0	24.3	24.6	21.2	22.5	21.6	22.8	23.2
	3H	24.3	25.4	24.7	25.8	26.2	22.7	23.8	23.1	24.2	24.6
	4H	24.9	25.9	25.3	26.3	26.7	23.2	24.2	23.6	24.6	25.0
	6H	25.4	26.2	25.8	26.7	27.1	23.6	24.4	24.0	24.9	25.3
	8H	25.5	26.3	26.0	26.8	27.2	23.7	24.5	24.2	24.9	25.4
	12H	25.6	26.3	26.1	26.8	27.3	23.8	24.5	24.3	25.0	25.4
8H	4H	25.0	25.8	25.5	26.3	26.7	23.5	24.3	23.9	24.7	25.2
	6H	25.6	26.2	26.1	26.7	27.2	23.9	24.6	24.4	25.1	25.6
	8H	25.8	26.4	26.3	26.9	27.4	24.1	24.7	24.6	25.2	25.7
	12H	25.9	26.4	26.4	26.9	27.5	24.2	24.7	24.7	25.2	25.8
12H	4H	25.0	25.7	25.5	26.2	26.7	23.5	24.2	24.0	24.7	25.2
	6H	25.6	26.2	26.1	26.7	27.2	24.0	24.6	24.5	25.0	25.6
	8H	25.8	26.3	26.3	26.8	27.4	24.2	24.7	24.7	25.2	25.8

Maximum UGR = 27.5

POLAR GRAPH



Maximum Candela = 6018.182 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.)