



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 75L-2-L32-835-DMA_.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] 22-JUL-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] 22" LED STRIP SURFACE MOUNT LUMINAIRE

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

[LUMCAT] 75L-2-L32-835-DMA-DIM-UNV

[_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	3209
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	27.8
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)	1.70 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	45031	39570	34369
55	38844	33020	27997
65	32704	26613	22262
75	25695	20248	17051
85	17581	12659	11955

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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	1429.544	1429.544	1429.544	1429.544	1429.544
5	1458.636	1426.312	1421.463	1408.533	1397.220
10	1431.160	1406.109	1394.796	1383.482	1366.512
15	1387.523	1367.320	1348.733	1335.804	1312.369
20	1329.339	1309.944	1285.701	1264.690	1238.023
25	1254.993	1234.790	1200.041	1175.798	1140.241
30	1169.333	1145.090	1099.028	1070.744	1025.490
35	1069.936	1043.268	987.509	947.103	905.082
40	957.609	929.325	869.525	819.422	775.784
45	839.625	804.876	737.803	695.782	640.830
50	715.176	685.276	614.971	568.909	526.079
55	587.495	568.909	499.411	454.157	423.449
60	469.511	453.349	393.549	357.184	331.325
65	364.457	345.062	296.576	272.333	248.089
70	267.484	243.241	210.108	189.906	175.360
75	175.360	155.157	138.187	119.600	116.368
80	101.014	84.043	75.154	65.457	67.073
85	40.405	29.092	29.092	24.243	27.476
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	515.03	N.A.	16.00
0-30	1067.7	N.A.	33.30
0-40	1686.88	N.A.	52.60
0-60	2717.81	N.A.	84.70
0-80	3172.51	N.A.	98.90
0-90	3209.35	N.A.	100.00
10-90	3074.51	N.A.	95.80
20-40	1171.84	N.A.	36.50
20-50	1747.29	N.A.	54.40
40-70	1334.58	N.A.	41.60
60-80	454.70	N.A.	14.20
70-80	151.05	N.A.	4.70
80-90	36.84	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	3209.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	134.85
10-20	380.19
20-30	552.67
30-40	619.18
40-50	575.45
50-60	455.48
60-70	303.65
70-80	151.05
80-90	36.84
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	373	373	373	373	365	365	365	365	349	349	349	334	334	334	320	320	320	314
1	345	331	319	308	336	324	313	303	311	302	294	299	291	285	288	282	276	270
2	316	292	273	256	308	287	269	253	276	261	247	266	253	242	256	246	237	230
3	290	260	236	217	283	255	233	215	246	227	211	237	221	208	229	216	204	198
4	267	232	206	187	260	228	204	185	220	200	183	213	195	181	207	191	178	172
5	247	209	183	163	241	206	181	162	199	177	160	193	174	159	187	171	157	151
6	229	189	163	144	223	187	161	143	181	159	142	176	156	141	171	153	140	133
7	213	173	147	128	208	170	145	128	166	143	127	161	141	126	157	139	125	119
8	199	158	133	115	194	156	132	115	152	130	114	148	128	114	145	127	113	107
9	186	146	121	104	182	144	120	104	141	119	104	137	117	103	134	116	103	97
10	175	135	111	95	171	133	111	95	130	109	95	128	108	94	125	107	94	89

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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	20.7	22.2	21.1	22.6	22.9	19.0	20.5	19.3	20.8	21.1
	3H	22.2	23.6	22.6	23.9	24.3	20.3	21.7	20.6	22.0	22.3
	4H	22.7	24.0	23.1	24.4	24.7	20.7	22.0	21.1	22.3	22.7
	6H	23.1	24.3	23.5	24.6	25.0	21.0	22.2	21.4	22.6	23.0
	8H	23.2	24.3	23.6	24.7	25.1	21.1	22.2	21.5	22.6	23.0
	12H	23.2	24.3	23.7	24.7	25.1	21.1	22.2	21.6	22.6	23.0

UGR Viewed Endwise

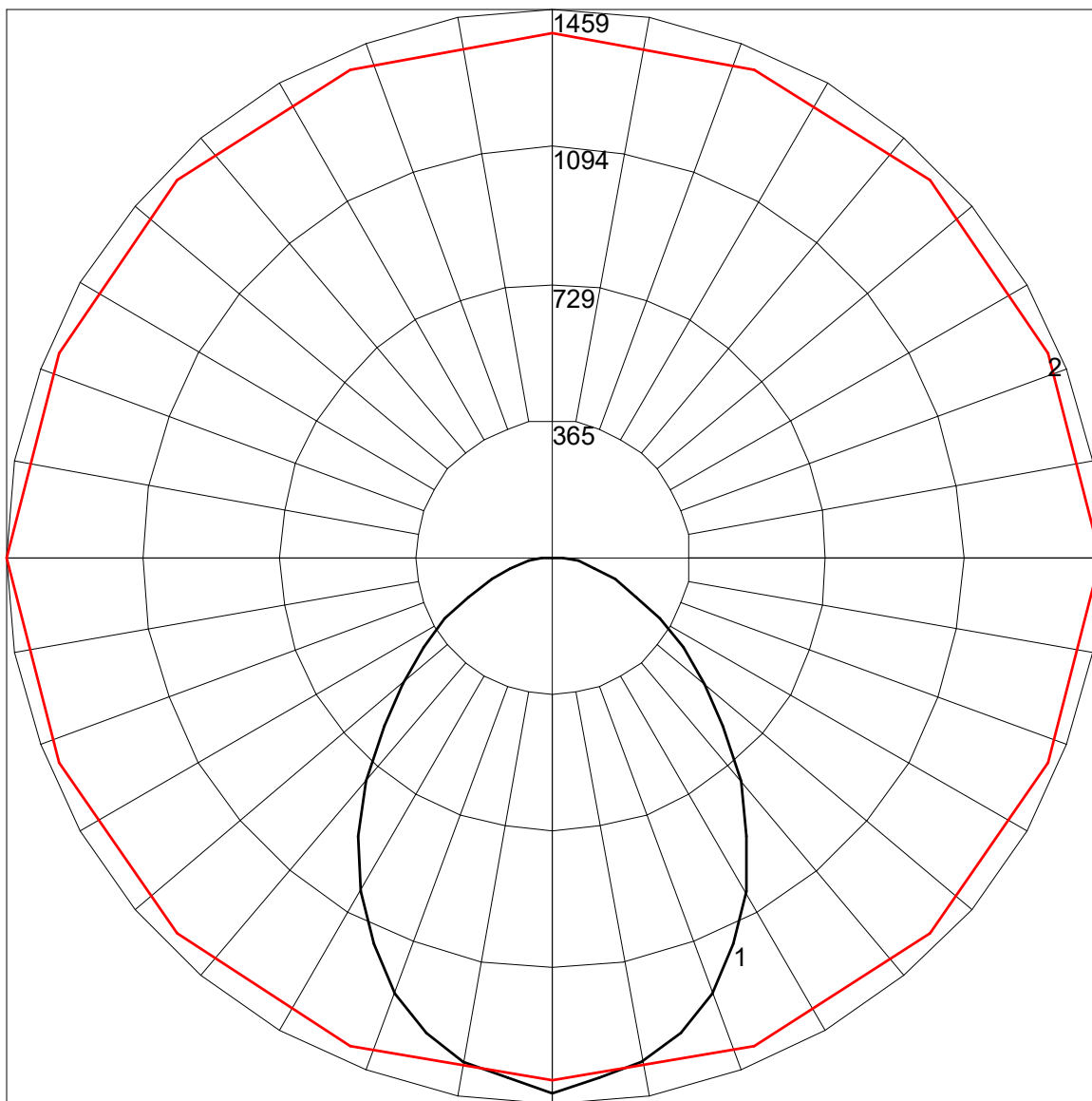
4H	2H	21.0	22.3	21.4	22.7	23.1	19.6	20.9	20.0	21.2	21.6
	3H	22.7	23.8	23.1	24.2	24.6	21.1	22.2	21.5	22.6	23.0
	4H	23.3	24.3	23.8	24.7	25.2	21.6	22.6	22.0	23.0	23.4
	6H	23.8	24.7	24.3	25.1	25.6	22.0	22.9	22.5	23.3	23.8
	8H	24.0	24.8	24.4	25.2	25.7	22.1	22.9	22.6	23.4	23.8
	12H	24.1	24.8	24.5	25.2	25.7	22.2	22.9	22.7	23.4	23.9

8H	4H	23.5	24.3	23.9	24.7	25.2	21.9	22.7	22.4	23.1	23.6
	6H	24.0	24.7	24.5	25.2	25.6	22.4	23.0	22.9	23.5	24.0
	8H	24.2	24.8	24.7	25.3	25.8	22.5	23.1	23.1	23.6	24.1
	12H	24.4	24.9	24.9	25.4	25.9	22.7	23.2	23.2	23.7	24.2

12H	4H	23.5	24.2	24.0	24.7	25.1	21.9	22.6	22.4	23.1	23.6
	6H	24.0	24.6	24.6	25.1	25.6	22.4	23.0	23.0	23.5	24.0
	8H	24.3	24.8	24.8	25.3	25.8	22.6	23.1	23.1	23.6	24.2

Maximum UGR = 25.9

POLAR GRAPH



Maximum Candela = 1458.636 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.)