



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-LN-OF-WH_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20404.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

[MORE] ACRYLIC NARROW TIR OPTIC & 6"WHITE ASYM FLUSH TRIM w/SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L15-835-DIM-UNV-LN-OF-WH_0 DEG TILT

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1433
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	15.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.46
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2452	2569	2803
55	1512	1512	1584
65	1172	1075	1270
75	798	798	478
85	0	0	0

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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>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	6191.826	6191.826	6191.826	6191.826	6191.826	6191.826	6191.826	6191.826	6191.826
5	5746.322	5711.646	5633.250	5594.805	5504.348	5376.199	5269.911	5186.238	5091.258
10	4158.036	4175.374	4103.762	3937.169	3863.295	3748.715	3542.171	3509.003	3451.713
15	2440.849	2422.003	2238.073	2119.724	2108.417	2044.343	1956.147	1803.122	1783.523
20	1159.365	1143.535	1084.738	1025.940	1002.572	951.313	902.315	845.025	805.073
25	513.347	520.131	473.395	462.842	449.273	436.458	391.229	365.600	327.909
30	223.883	223.129	214.083	199.007	195.238	190.715	177.146	165.839	150.009
35	101.011	100.257	98.750	96.488	97.242	98.750	90.458	85.181	79.150
40	54.275	53.521	52.767	53.521	56.536	58.797	53.521	51.259	47.490
45	31.660	32.414	33.168	33.922	36.183	36.183	36.183	34.675	33.922
50	19.599	20.353	21.107	23.368	24.876	25.630	24.876	24.122	24.876
55	15.830	15.830	15.830	16.584	16.584	17.338	18.092	16.584	17.338
60	12.061	10.553	11.307	12.061	12.815	14.322	12.815	12.061	12.061
65	9.046	9.046	8.292	9.046	9.800	9.800	9.046	9.046	8.292
70	6.784	6.784	6.784	5.277	6.784	6.031	5.277	6.784	6.031
75	3.769	3.015	3.769	3.015	2.261	3.015	3.015	2.261	3.015
80	2.261	1.508	1.508	1.508	0.754	0.000	0.000	0.754	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L15-835-DIM-UNV-LN-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1078.92	N.A.	75.30
0-30	1309.35	N.A.	91.40
0-40	1376.64	N.A.	96.10
0-60	1420.04	N.A.	99.10
0-80	1432.57	N.A.	100.00
0-90	1432.81	N.A.	100.00
10-90	960.89	N.A.	67.10
20-40	297.72	N.A.	20.80
20-50	325.74	N.A.	22.70
40-70	52.48	N.A.	3.70
60-80	12.52	N.A.	0.90
70-80	3.45	N.A.	0.20
80-90	0.24	N.A.	0.00
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	1432.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	471.92
10-20	607.01
20-30	230.43
30-40	67.28
40-50	28.02
50-60	15.38
60-70	9.08
70-80	3.45
80-90	0.24
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	180	180	180	180	175	175	175	175	168	168	168	160	160	160	154	154	154	151
1	173	170	167	164	169	166	164	161	160	158	156	155	153	152	150	149	147	145
2	167	161	156	152	164	159	154	151	154	150	147	149	147	144	145	143	141	139
3	161	154	148	143	158	152	146	142	148	143	140	144	141	138	141	138	136	134
4	156	147	141	136	153	145	140	135	142	137	134	140	135	132	137	134	131	129
5	151	141	135	130	149	140	134	129	137	132	128	135	131	127	133	129	126	124
6	146	136	129	124	144	135	129	124	133	127	123	131	126	123	129	125	122	120
7	142	131	125	120	140	130	124	120	129	123	119	127	122	118	126	121	118	116
8	137	127	120	116	136	126	120	116	125	119	115	123	118	115	122	118	114	113
9	133	123	116	112	132	122	116	112	121	115	112	120	115	111	119	114	111	109
10	130	119	113	109	129	119	113	108	118	112	108	117	112	108	116	111	108	106

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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

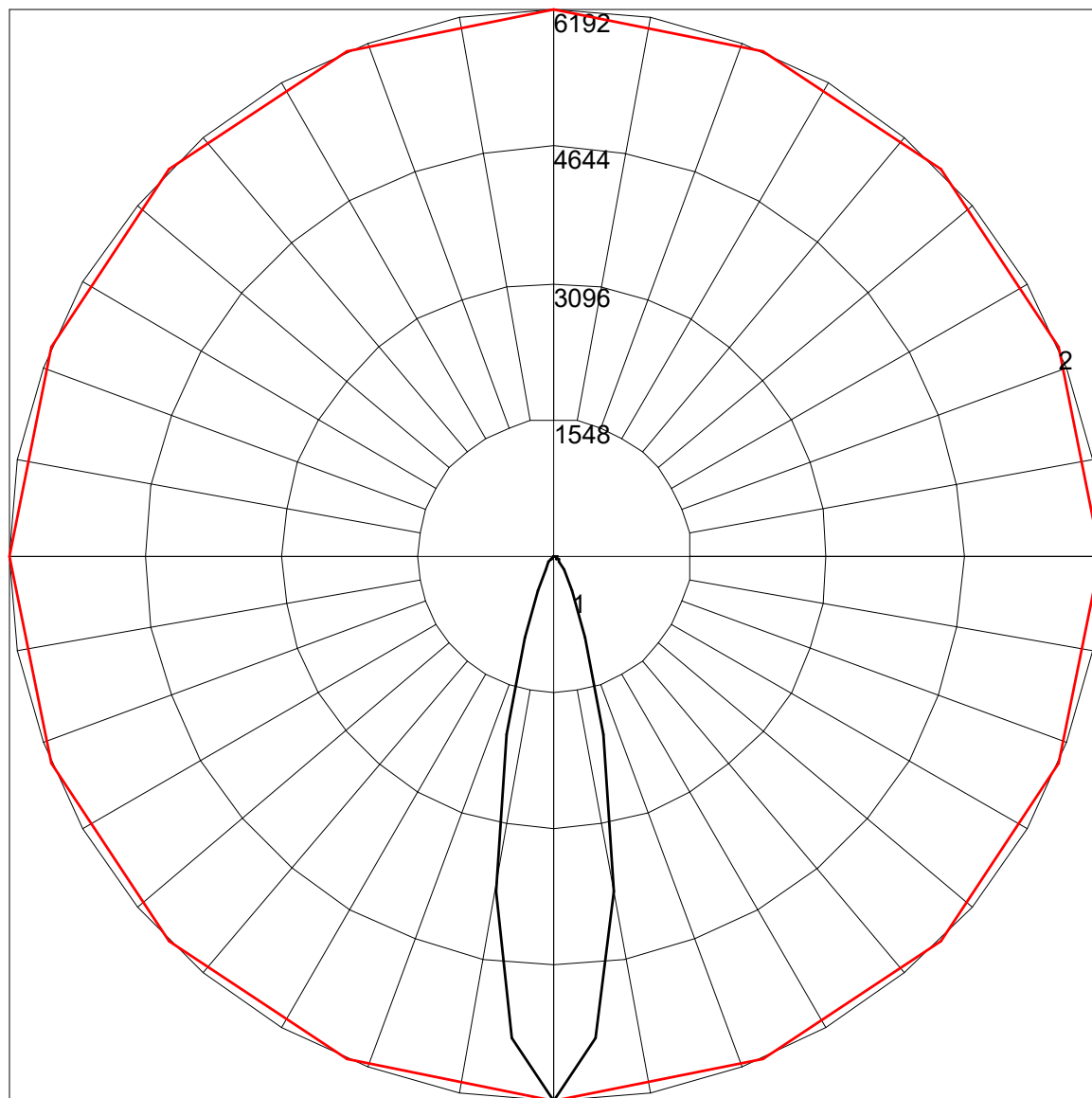
X=2H	Y=2H	1.8	2.7	2.2	3.0	3.3	2.6	3.6	3.0	3.9	4.2
	3H	3.2	4.1	3.6	4.4	4.8	3.7	4.5	4.1	4.9	5.3
	4H	3.6	4.3	4.0	4.7	5.1	3.9	4.6	4.3	5.0	5.4
	6H	3.7	4.4	4.2	4.8	5.2	3.8	4.5	4.2	4.9	5.3
	8H	3.8	4.4	4.2	4.8	5.2	3.8	4.4	4.2	4.8	5.2
	12H	3.7	4.3	4.1	4.7	5.1	3.7	4.3	4.1	4.7	5.1

UGR Viewed Endwise

4H	2H	2.1	2.8	2.5	3.2	3.6	2.9	3.6	3.3	4.0	4.4
	3H	3.8	4.4	4.2	4.8	5.2	4.1	4.7	4.5	5.1	5.5
	4H	4.1	4.6	4.5	5.1	5.5	4.3	4.8	4.7	5.2	5.7
	6H	4.3	4.8	4.8	5.3	5.7	4.3	4.7	4.7	5.2	5.7
	8H	4.4	4.8	4.8	5.2	5.7	4.2	4.6	4.7	5.1	5.6
	12H	4.3	4.7	4.8	5.2	5.6	4.1	4.5	4.6	5.0	5.5
8H	4H	4.1	4.6	4.6	5.0	5.5	4.3	4.7	4.7	5.2	5.6
	6H	4.4	4.8	4.9	5.3	5.8	4.3	4.6	4.8	5.1	5.6
	8H	4.5	4.8	5.0	5.3	5.8	4.2	4.5	4.8	5.1	5.6
	12H	4.4	4.7	4.9	5.2	5.8	4.2	4.4	4.7	4.9	5.5
12H	4H	4.1	4.5	4.6	5.0	5.4	4.2	4.6	4.7	5.1	5.6
	6H	4.4	4.7	4.9	5.2	5.7	4.2	4.5	4.8	5.0	5.6
	8H	4.4	4.7	5.0	5.2	5.8	4.2	4.5	4.7	5.0	5.5

Maximum UGR = 5.8

POLAR GRAPH



Maximum Candela = 6191.826 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)