



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20407.0

[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 WIDE TIR OPTIC & 6"WHITE ASYM TRIM w/ANGLED SOLITE

[MORE] LENS ADVANCE #XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L15-835-DIM-UNV-AW-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	1122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	15.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.82
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.74
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	3154	3387	3913
55	2592	2952	3024
65	3029	3029	2150
75	3351	2713	1117
85	1421	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	1616.645	1616.645	1616.645	1616.645	1616.645	1616.645	1616.645	1616.645	1616.645
5	1607.597	1604.581	1605.335	1612.875	1624.939	1632.480	1638.512	1637.758	1629.464
10	1577.435	1575.173	1580.451	1593.270	1612.875	1618.907	1615.891	1597.794	1575.927
15	1449.250	1465.085	1465.839	1475.641	1489.214	1482.427	1446.988	1407.024	1354.996
20	1182.322	1193.633	1187.601	1194.387	1192.125	1196.649	1135.572	1084.298	1030.008
25	740.460	772.883	778.915	792.488	787.210	793.242	755.540	691.448	663.548
30	386.819	392.097	396.621	402.653	397.375	399.637	390.589	379.278	361.181
35	180.214	190.770	183.230	180.968	181.722	187.754	195.294	187.000	177.952
40	83.698	89.730	91.992	88.976	91.992	97.270	101.040	100.286	98.778
45	40.718	42.226	43.734	46.750	50.520	53.536	57.306	57.306	53.536
50	30.161	31.669	34.685	37.702	39.210	38.456	37.702	35.440	34.685
55	27.145	27.899	30.915	33.177	31.669	27.899	24.883	21.867	21.113
60	26.391	27.145	28.653	27.145	23.375	19.605	15.081	13.573	12.065
65	23.375	23.375	23.375	21.113	16.589	12.819	9.048	4.524	3.770
70	21.113	20.359	18.097	15.081	10.556	6.786	2.262	2.262	1.508
75	15.835	15.081	12.819	7.540	5.278	2.262	1.508	2.262	1.508
80	9.048	7.540	6.786	3.770	0.754	0.000	0.000	0.000	0.000
85	2.262	1.508	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-AW-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	550.37	N.A.	49.00
0-30	897.42	N.A.	80.00
0-40	1029.11	N.A.	91.70
0-60	1098.38	N.A.	97.90
0-80	1121.4	N.A.	99.90
0-90	1122.37	N.A.	100.00
10-90	968.53	N.A.	86.30
20-40	478.74	N.A.	42.70
20-50	522.70	N.A.	46.60
40-70	85.01	N.A.	7.60
60-80	23.02	N.A.	2.10
70-80	7.28	N.A.	0.60
80-90	0.97	N.A.	0.10
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	1122.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	153.84
10-20	396.53
20-30	347.06
30-40	131.69
40-50	43.96
50-60	25.30
60-70	15.74
70-80	7.28
80-90	0.97
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	171	167	164	160	168	164	161	158	158	155	153	152	150	148	147	146	144	141
2	163	156	150	145	160	154	148	144	149	144	140	144	141	137	140	137	135	132
3	156	146	139	133	153	144	138	132	140	135	130	137	132	128	133	129	126	124
4	148	137	129	123	146	136	128	123	133	126	121	130	124	120	127	122	118	116
5	142	130	121	115	139	128	120	115	126	119	114	123	117	113	121	116	112	109
6	135	122	114	108	133	121	113	107	119	112	107	117	111	106	115	110	105	103
7	129	116	108	102	127	115	107	101	113	106	101	111	105	100	110	104	100	98
8	124	110	102	96	122	109	101	96	108	100	95	106	100	95	105	99	95	93
9	118	105	96	91	117	104	96	91	103	95	90	101	95	90	100	94	90	88
10	114	100	92	86	112	99	91	86	98	91	86	97	90	86	96	90	85	84

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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

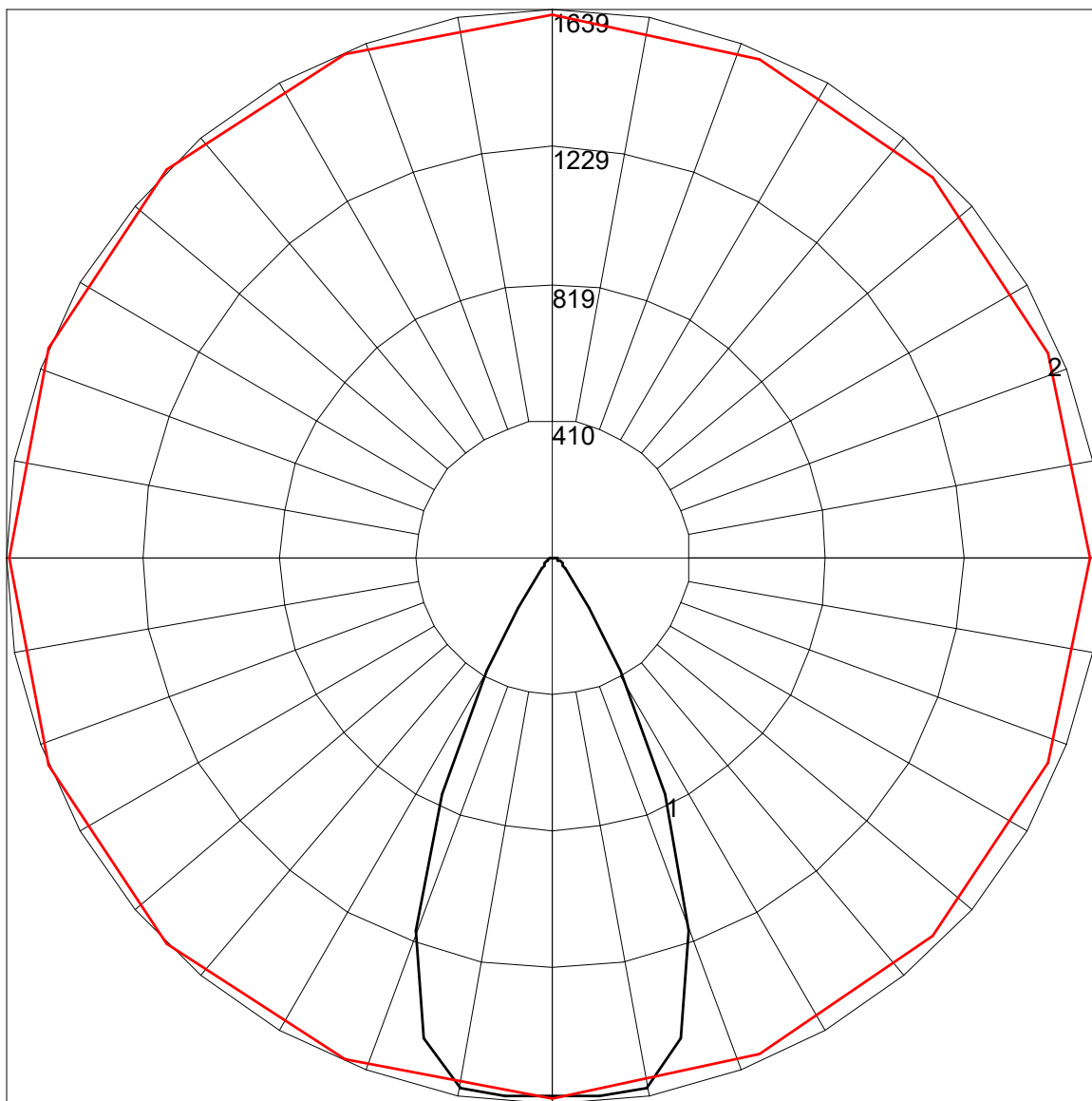
X=2H	Y=2H	7.7	8.7	8.1	9.0	9.3	7.6	8.6	7.9	8.9	9.2
	3H	10.2	11.1	10.6	11.4	11.8	8.6	9.5	9.0	9.8	10.2
	4H	11.2	12.0	11.6	12.4	12.8	8.8	9.6	9.2	10.0	10.3
	6H	11.8	12.6	12.3	12.9	13.3	8.8	9.5	9.2	9.9	10.3
	8H	12.0	12.7	12.4	13.1	13.5	8.7	9.4	9.1	9.8	10.2
	12H	12.0	12.7	12.4	13.1	13.5	8.6	9.3	9.1	9.7	10.1

UGR Viewed Endwise

4H	2H	8.4	9.3	8.8	9.6	10.0	7.9	8.8	8.3	9.1	9.5
	3H	11.1	11.7	11.5	12.2	12.6	9.2	9.8	9.6	10.2	10.6
	4H	12.2	12.8	12.6	13.2	13.6	9.4	10.0	9.8	10.4	10.9
	6H	12.9	13.4	13.3	13.8	14.3	9.4	9.9	9.9	10.4	10.8
	8H	13.0	13.5	13.5	14.0	14.4	9.3	9.8	9.8	10.3	10.7
	12H	13.1	13.5	13.6	14.0	14.4	9.3	9.7	9.8	10.2	10.7
8H	4H	12.3	12.8	12.8	13.3	13.7	9.6	10.1	10.1	10.5	11.0
	6H	13.1	13.5	13.6	14.0	14.5	9.7	10.1	10.2	10.6	11.1
	8H	13.3	13.7	13.9	14.2	14.7	9.6	10.0	10.2	10.5	11.0
	12H	13.4	13.7	13.9	14.2	14.8	9.6	9.9	10.1	10.4	11.0
12H	4H	12.3	12.7	12.8	13.2	13.7	9.6	10.0	10.1	10.5	11.0
	6H	13.1	13.4	13.6	13.9	14.5	9.7	10.0	10.2	10.5	11.1
	8H	13.3	13.6	13.9	14.1	14.7	9.7	10.0	10.2	10.5	11.1

Maximum UGR = 14.8

POLAR GRAPH



Maximum Candela = 1638.512 Located At Horizontal Angle = 135, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)