



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L10-835-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-L10-835-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	950
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	10.5
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	1627	1704	1859
55	1003	1003	1050
65	778	713	842
75	529	529	317
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	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0	4107.0
5	3811.5	3788.5	3736.5	3711.0	3651.0	3566.0	3495.5	3440.0	3377.0
10	2758.0	2769.5	2722.0	2611.5	2562.5	2486.5	2349.5	2327.5	2289.5
15	1619.0	1606.5	1484.5	1406.0	1398.5	1356.0	1297.5	1196.0	1183.0
20	769.0	758.5	719.5	680.5	665.0	631.0	598.5	560.5	534.0
25	340.5	345.0	314.0	307.0	298.0	289.5	259.5	242.5	217.5
30	148.5	148.0	142.0	132.0	129.5	126.5	117.5	110.0	99.5
35	67.0	66.5	65.5	64.0	64.5	65.5	60.0	56.5	52.5
40	36.0	35.5	35.0	35.5	37.5	39.0	35.5	34.0	31.5
45	21.0	21.5	22.0	22.5	24.0	24.0	24.0	23.0	22.5
50	13.0	13.5	14.0	15.5	16.5	17.0	16.5	16.0	16.5
55	10.5	10.5	10.5	11.0	11.0	11.5	12.0	11.0	11.5
60	8.0	7.0	7.5	8.0	8.5	9.5	8.5	8.0	8.0
65	6.0	6.0	5.5	6.0	6.5	6.5	6.0	6.0	5.5
70	4.5	4.5	4.5	3.5	4.5	4.0	3.5	4.5	4.0
75	2.5	2.0	2.5	2.0	1.5	2.0	2.0	1.5	2.0
80	1.5	1.0	1.0	1.0	0.5	0.0	0.0	0.5	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L10-835-DIM-UNV-LN-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	715.64	N.A.	75.30
0-30	868.49	N.A.	91.40
0-40	913.12	N.A.	96.10
0-60	941.90	N.A.	99.10
0-80	950.21	N.A.	100.00
0-90	950.37	N.A.	100.00
10-90	637.36	N.A.	67.10
20-40	197.47	N.A.	20.80
20-50	216.06	N.A.	22.70
40-70	34.81	N.A.	3.70
60-80	8.31	N.A.	0.90
70-80	2.29	N.A.	0.20
80-90	0.16	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	950.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	313.02
10-20	402.62
20-30	152.85
30-40	44.63
40-50	18.58
50-60	10.20
60-70	6.02
70-80	2.29
80-90	0.16
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	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	57	56	55	54	56	55	54	53	53	52	52	51	51	50	50	49	49	48
2	55	53	52	50	54	53	51	50	51	50	49	50	49	48	48	47	47	46
3	53	51	49	47	52	50	49	47	49	48	46	48	47	46	47	46	45	44
4	52	49	47	45	51	48	46	45	47	46	44	46	45	44	45	44	43	43
5	50	47	45	43	49	46	44	43	46	44	42	45	43	42	44	43	42	41
6	48	45	43	41	48	45	43	41	44	42	41	43	42	41	43	41	40	40
7	47	43	41	40	46	43	41	40	43	41	39	42	40	39	42	40	39	39
8	46	42	40	38	45	42	40	38	41	39	38	41	39	38	40	39	38	37
9	44	41	39	37	44	41	38	37	40	38	37	40	38	37	39	38	37	36
10	43	40	37	36	43	39	37	36	39	37	36	39	37	36	38	37	36	35

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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	4.2	5.1	4.6	5.4	5.7	5.0	6.0	5.4	6.3	6.6
	3H	5.6	6.5	6.0	6.8	7.2	6.1	6.9	6.5	7.3	7.7
	4H	6.0	6.7	6.4	7.1	7.5	6.3	7.0	6.7	7.4	7.8
	6H	6.1	6.8	6.6	7.2	7.6	6.2	6.9	6.6	7.3	7.7
	8H	6.2	6.8	6.6	7.2	7.6	6.2	6.8	6.6	7.2	7.6
	12H	6.1	6.7	6.5	7.1	7.5	6.1	6.7	6.5	7.1	7.5

UGR Viewed Endwise

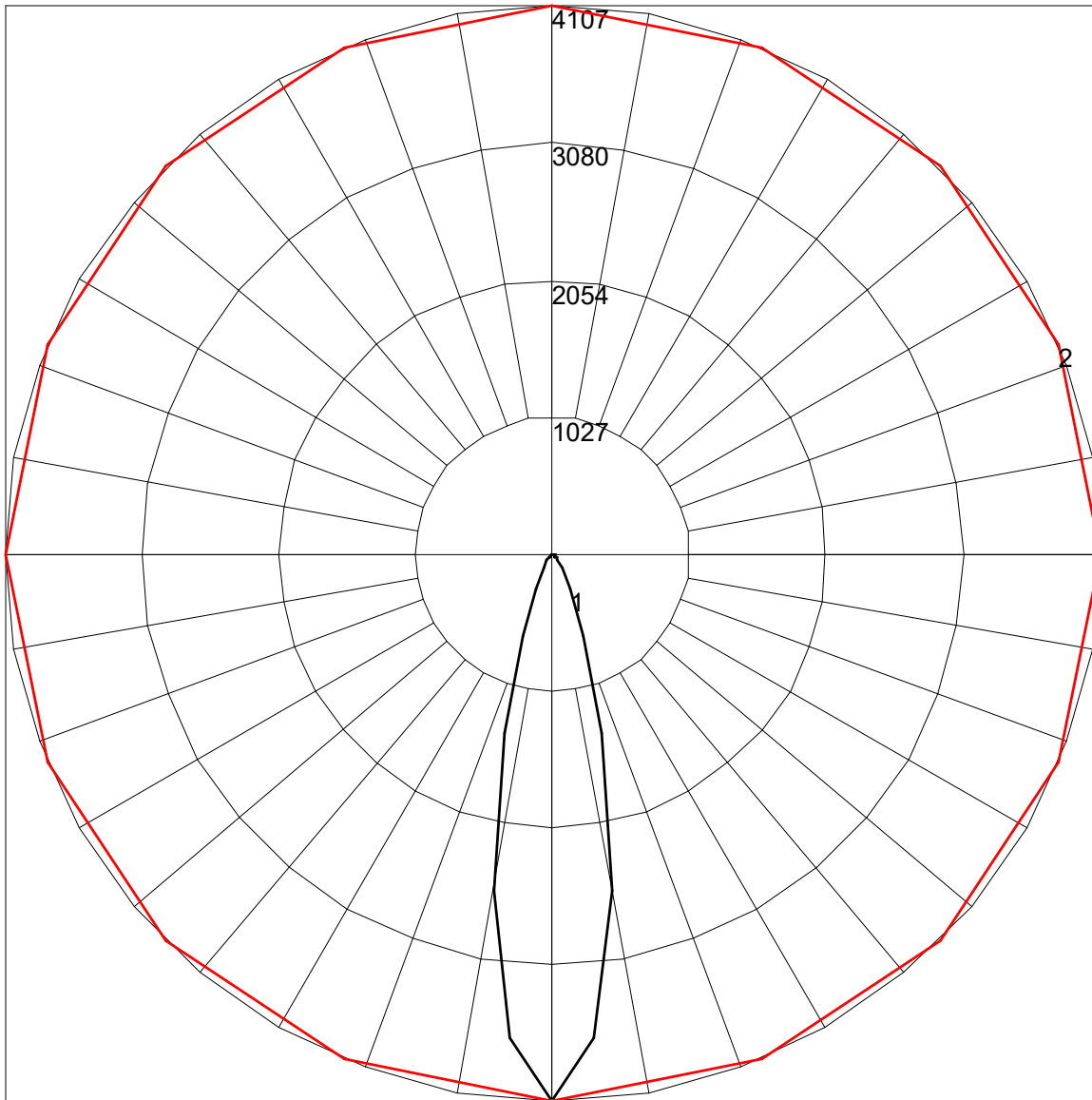
4H	2H	4.5	5.2	4.9	5.6	6.0	5.3	6.0	5.7	6.4	6.8
	3H	6.2	6.8	6.6	7.2	7.6	6.5	7.1	6.9	7.5	7.9
	4H	6.5	7.0	6.9	7.5	7.9	6.7	7.2	7.1	7.6	8.1
	6H	6.7	7.2	7.2	7.7	8.1	6.7	7.1	7.1	7.6	8.1
	8H	6.8	7.2	7.2	7.6	8.1	6.6	7.0	7.1	7.5	8.0
	12H	6.7	7.1	7.2	7.6	8.0	6.5	6.9	7.0	7.4	7.9

8H	4H	6.5	7.0	7.0	7.4	7.9	6.7	7.1	7.1	7.6	8.0
	6H	6.8	7.2	7.3	7.7	8.2	6.7	7.0	7.2	7.5	8.0
	8H	6.9	7.2	7.4	7.7	8.2	6.6	6.9	7.2	7.5	8.0
	12H	6.8	7.1	7.3	7.6	8.2	6.6	6.8	7.1	7.3	7.9

12H	4H	6.5	6.9	7.0	7.4	7.8	6.6	7.0	7.1	7.5	8.0
	6H	6.8	7.1	7.3	7.6	8.1	6.6	6.9	7.2	7.4	8.0
	8H	6.8	7.1	7.4	7.6	8.2	6.6	6.9	7.1	7.4	7.9

Maximum UGR = 8.2

POLAR GRAPH



Maximum Candela = 4107 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.)