



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-840-(L25)-DIM-UNV-LW-OF-WH_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN FROM BALLABS TEST NO. 20398.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 27-MAY-2021

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] ACRYLIC WIDE TIR OPTIC & 6"WHITE ASYM FLUSH TRIM

[MORE] w/SOLITE LENS

[LUMCAT] 6AR-L30-840-(L25)-DIM1-UNV-LW-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	2512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	25.11
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.78
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	9234	9560	10864
55	6027	6295	7366
65	5271	5271	5816
75	4155	4155	4452
85	1763	0	882

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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	3181.024	3181.024	3181.024	3181.024	3181.024	3181.024	3181.024	3181.024	3181.024
5	3294.632	3260.971	3241.335	3214.686	3181.024	3172.609	3171.206	3175.414	3183.829
10	3308.658	3267.983	3242.737	3213.283	3164.193	3159.986	3164.193	3159.986	3159.986
15	3131.934	3115.103	3084.247	3051.988	3035.157	2969.236	2959.418	2951.003	2921.549
20	2653.659	2612.984	2627.010	2587.738	2566.699	2551.271	2500.779	2415.222	2395.586
25	1813.520	1868.221	1854.195	1842.974	1845.779	1722.353	1750.405	1680.276	1625.576
30	983.200	957.954	1000.031	1000.031	963.564	1023.875	934.110	925.695	859.774
35	439.004	455.835	460.042	464.250	460.042	485.289	469.860	417.965	443.211
40	227.216	213.190	214.593	224.411	234.229	242.644	251.060	241.242	210.385
45	119.218	122.023	123.426	130.439	140.257	154.282	152.880	151.477	131.841
50	82.752	82.752	84.154	91.167	102.387	105.193	106.595	102.387	98.180
55	63.116	61.713	65.921	71.531	77.141	81.349	81.349	77.141	77.141
60	49.090	50.492	54.700	56.103	58.908	60.310	63.116	57.505	61.713
65	40.674	37.869	40.674	40.674	44.882	44.882	43.480	44.882	44.882
70	29.454	32.259	32.259	33.662	32.259	33.662	35.064	32.259	33.662
75	19.636	19.636	19.636	21.039	21.039	21.039	19.636	19.636	19.636
80	12.623	11.221	8.415	14.026	11.221	8.415	11.221	8.415	8.415
85	2.805	4.208	0.000	2.805	1.403	2.805	1.403	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-L30-840-(L25)-DIM-UNV-LW-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1134.1	N.A.	45.10
0-30	1936.81	N.A.	77.10
0-40	2260.9	N.A.	90.00
0-60	2442.93	N.A.	97.20
0-80	2508.28	N.A.	99.80
0-90	2512.07	N.A.	100.00
10-90	2206.47	N.A.	87.80
20-40	1126.8	N.A.	44.90
20-50	1241.97	N.A.	49.40
40-70	225.33	N.A.	9.00
60-80	65.35	N.A.	2.60
70-80	22.05	N.A.	0.90
80-90	3.79	N.A.	0.20
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	2512.07	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	305.60
10-20	828.50
20-30	802.71
30-40	324.08
40-50	115.17
50-60	66.86
60-70	43.30
70-80	22.05
80-90	3.79
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	81	71	65	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	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	11.2	12.2	11.6	12.5	12.9	UGR Viewed Endwise			
	3H	12.8	13.7	13.2	14.1	14.4	12.5	13.5	12.8	13.8
	4H	13.3	14.2	13.7	14.5	14.9	13.8	14.7	14.2	15.1
	6H	13.7	14.5	14.2	14.9	15.3	14.3	15.1	14.7	15.5
	8H	13.8	14.5	14.3	14.9	15.3	14.5	15.3	14.9	15.7
	12H	13.8	14.5	14.3	14.9	15.3	14.6	15.3	15.0	15.7

4H	2H	11.7	12.5	12.1	12.9	13.3	14.5	15.2	15.0	15.6
	3H	13.6	14.2	14.0	14.7	15.1	14.3	15.1	14.7	15.5
	4H	14.2	14.8	14.6	15.2	15.7	14.5	15.3	14.9	15.7
	6H	14.7	15.2	15.1	15.6	16.1	14.6	15.4	15.0	15.8
	8H	14.8	15.3	15.3	15.7	16.2	14.7	15.5	15.1	15.9
	12H	14.8	15.2	15.3	15.7	16.2	14.8	15.6	15.2	16.0

8H	4H	14.3	14.8	14.8	15.3	15.7	14.9	15.7	15.3	16.1
	6H	14.9	15.3	15.4	15.8	16.3	15.0	15.8	15.4	16.2
	8H	15.1	15.4	15.6	15.9	16.4	15.1	15.9	15.5	16.3
	12H	15.1	15.5	15.7	16.0	16.5	15.2	15.9	15.6	16.4

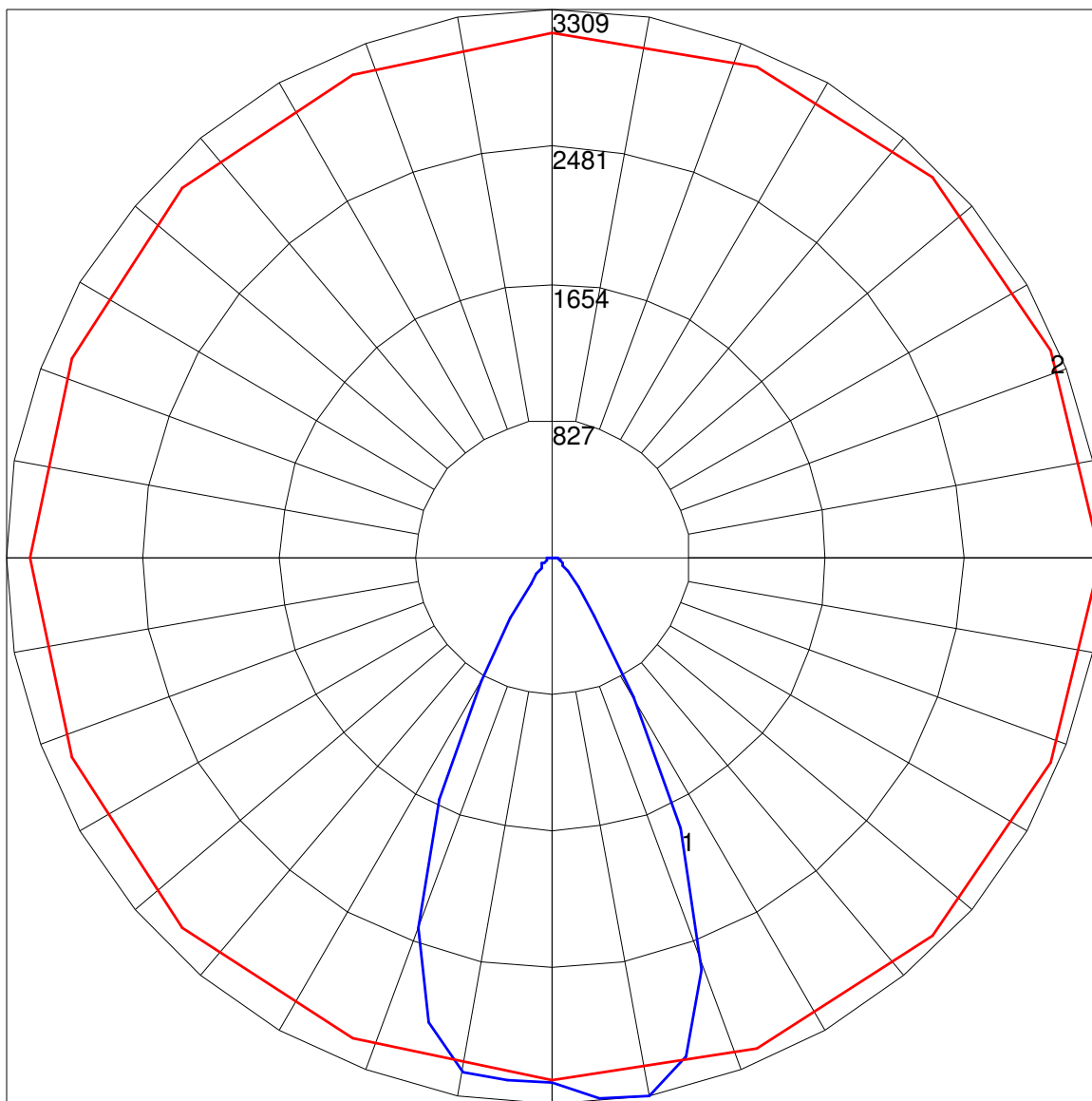
12H	4H	14.3	14.7	14.8	15.2	15.7	15.3	16.1	15.7	16.7
	6H	14.9	15.2	15.4	15.7	16.2	15.4	16.2	15.8	16.8
	8H	15.1	15.4	15.6	15.9	16.5	15.5	16.3	15.9	16.9

Maximum UGR = 17.0

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POLAR GRAPH



Maximum Candela = 3308.658 Located At Horizontal Angle = 0, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)