



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-840-DIM1-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] LED 6"SHORT HEATSINK 6"RND ADJ DOWNLIGHT @ 0 TILT

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

[MORE] w/SOLITE LENS ADVANCE # XI025C070V054DSM5 @ 530mA

[LUMCAT] 6AR-L30-840-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	2584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	31.3
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	9499	9834	11175
55	6199	6475	7577
65	5422	5422	5983
75	4274	4274	4580
85	1814	0	907

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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	3272.200	3272.200	3272.200	3272.200	3272.200	3272.200	3272.200	3272.200	3272.200
5	3389.064	3354.438	3334.239	3306.827	3272.200	3263.544	3262.101	3266.429	3275.086
10	3403.492	3361.652	3335.682	3305.384	3254.887	3250.559	3254.887	3250.559	3250.559
15	3221.703	3204.390	3172.649	3139.465	3122.152	3054.342	3044.243	3035.586	3005.288
20	2729.719	2687.879	2702.306	2661.909	2640.267	2624.397	2572.457	2484.448	2464.250
25	1865.500	1921.768	1907.341	1895.799	1898.684	1771.720	1800.576	1728.437	1672.169
30	1011.381	985.411	1028.694	1028.694	991.182	1053.221	960.884	952.228	884.417
35	451.587	468.900	473.228	477.557	473.228	499.198	483.328	429.945	455.915
40	233.729	219.301	220.744	230.843	240.942	249.599	258.256	248.156	216.415
45	122.635	125.521	126.964	134.178	144.277	158.705	157.262	155.819	135.620
50	85.123	85.123	86.566	93.780	105.322	108.208	109.650	105.322	100.994
55	64.925	63.482	67.810	73.581	79.352	83.681	83.681	79.352	79.352
60	50.497	51.940	56.268	57.711	60.596	62.039	64.925	59.154	63.482
65	41.840	38.955	41.840	41.840	46.169	46.169	44.726	46.169	46.169
70	30.298	33.184	33.184	34.626	33.184	34.626	36.069	33.184	34.626
75	20.199	20.199	20.199	21.642	21.642	21.642	20.199	20.199	20.199
80	12.985	11.542	8.657	14.428	11.542	8.657	11.542	8.657	8.657
85	2.886	4.328	0.000	2.886	1.443	2.886	1.443	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-DIM1-UNV-LW-OF-WH_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1166.61	N.A.	45.10
0-30	1992.33	N.A.	77.10
0-40	2325.7	N.A.	90.00
0-60	2512.95	N.A.	97.20
0-80	2580.17	N.A.	99.80
0-90	2584.07	N.A.	100.00
10-90	2269.71	N.A.	87.80
20-40	1159.09	N.A.	44.90
20-50	1277.57	N.A.	49.40
40-70	231.79	N.A.	9.00
60-80	67.22	N.A.	2.60
70-80	22.68	N.A.	0.90
80-90	3.90	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	2584.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	314.36
10-20	852.25
20-30	825.72
30-40	333.37
40-50	118.47
50-60	68.78
60-70	44.54
70-80	22.68
80-90	3.90
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	11.3	12.3	11.7	12.6	13.0	12.6	13.6	12.9	13.9	14.2
	3H	12.9	13.8	13.3	14.2	14.5	13.9	14.8	14.3	15.2	15.5
	4H	13.4	14.3	13.8	14.6	15.0	14.4	15.2	14.8	15.6	15.9
	6H	13.8	14.6	14.3	15.0	15.4	14.6	15.4	15.0	15.8	16.2
	8H	13.9	14.6	14.4	15.0	15.4	14.7	15.4	15.1	15.8	16.2
	12H	13.9	14.6	14.4	15.0	15.4	14.6	15.3	15.1	15.7	16.1

UGR Viewed Endwise

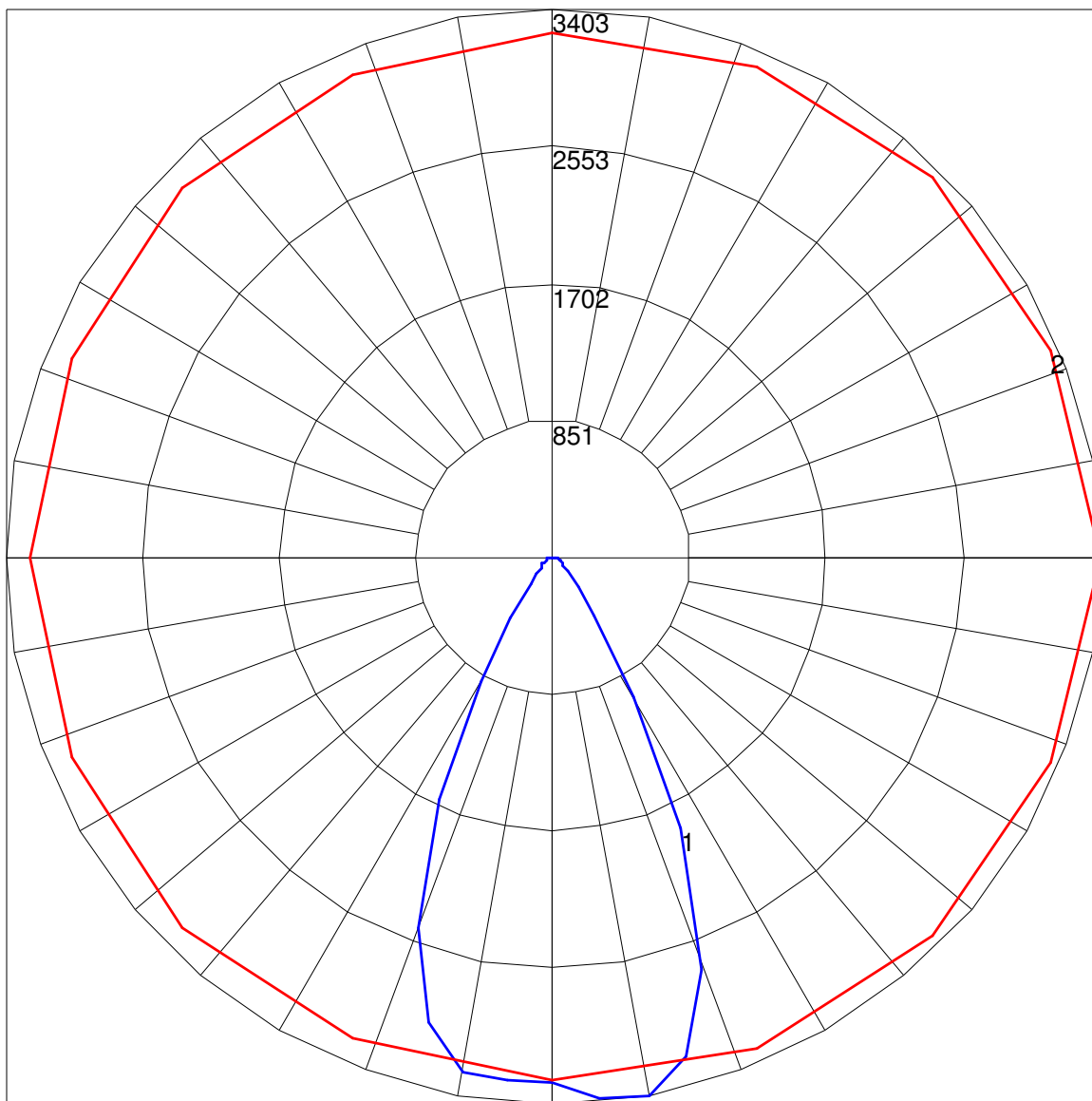
4H	2H	11.8	12.6	12.2	13.0	13.4	12.9	13.7	13.3	14.1	14.5
	3H	13.7	14.3	14.1	14.8	15.2	14.5	15.2	14.9	15.6	16.0
	4H	14.3	14.9	14.7	15.3	15.8	15.0	15.6	15.5	16.1	16.5
	6H	14.8	15.3	15.2	15.7	16.2	15.4	15.9	15.9	16.4	16.8
	8H	14.9	15.4	15.4	15.8	16.3	15.5	15.9	15.9	16.4	16.9
	12H	14.9	15.3	15.4	15.8	16.3	15.4	15.8	15.9	16.3	16.8

8H	4H	14.4	14.9	14.9	15.4	15.8	15.1	15.6	15.6	16.1	16.6
	6H	15.0	15.4	15.5	15.9	16.4	15.6	16.0	16.1	16.5	17.0
	8H	15.2	15.5	15.7	16.0	16.5	15.7	16.0	16.2	16.5	17.0
	12H	15.2	15.6	15.8	16.1	16.6	15.7	16.0	16.2	16.5	17.1

12H	4H	14.4	14.8	14.9	15.3	15.8	15.1	15.5	15.6	16.0	16.5
	6H	15.0	15.3	15.5	15.8	16.3	15.6	15.9	16.1	16.4	16.9
	8H	15.2	15.5	15.7	16.0	16.6	15.7	16.0	16.2	16.5	17.1

Maximum UGR = 17.1

POLAR GRAPH



Maximum Candela = 3403.492 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.)