



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L20-8TW-DIM-UNV-OW-OF-CS_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20389.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

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

[MORE] ACRYLIC WIDE TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L20-8TW-DIM-UNV-OW-OF-CS_0 DEG TILT

[_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	1985
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.94
Spacing Criterion (Diagonal)	0.82
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	679	528	905
55	0	93	186
65	0	0	0
75	0	0	0
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	2690.799	2690.799	2690.799	2690.799	2690.799	2690.799	2690.799	2690.799	2690.799
5	2701.508	2692.746	2687.879	2680.091	2670.355	2661.594	2646.991	2636.282	2629.468
10	2742.396	2729.740	2709.296	2695.667	2693.720	2691.773	2672.303	2653.806	2632.388
15	2737.528	2713.190	2683.985	2643.097	2621.680	2603.183	2570.083	2500.964	2471.758
20	2519.460	2549.639	2465.917	2449.367	2416.268	2355.910	2299.446	2269.267	2211.829
25	1864.284	1807.820	1860.390	1809.767	1772.773	1656.925	1642.322	1619.931	1584.885
30	1078.656	1091.312	1028.033	958.914	949.178	927.761	884.926	849.880	811.913
35	254.088	233.644	196.650	222.935	196.650	190.809	190.809	172.312	200.544
40	54.517	48.676	43.808	45.755	50.623	47.702	46.729	46.729	39.914
45	8.762	6.815	6.815	9.735	11.682	12.656	10.709	12.656	10.709
50	2.921	1.947	0.974	1.947	2.921	3.894	2.921	3.894	3.894
55	0.000	0.000	0.974	0.974	1.947	0.974	0.000	1.947	0.974
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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-L20-8TW-DIM-UNV-OW-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	983.95	N.A.	49.60
0-30	1758.03	N.A.	88.60
0-40	1970.48	N.A.	99.30
0-60	1984.68	N.A.	100.00
0-80	1984.68	N.A.	100.00
0-90	1984.68	N.A.	100.00
10-90	1728.9	N.A.	87.10
20-40	986.53	N.A.	49.70
20-50	999.73	N.A.	50.40
40-70	14.20	N.A.	0.70
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	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	1984.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	255.78
10-20	728.17
20-30	774.08
30-40	212.45
40-50	13.20
50-60	1.00
60-70	0.00
70-80	0.00
80-90	0.00
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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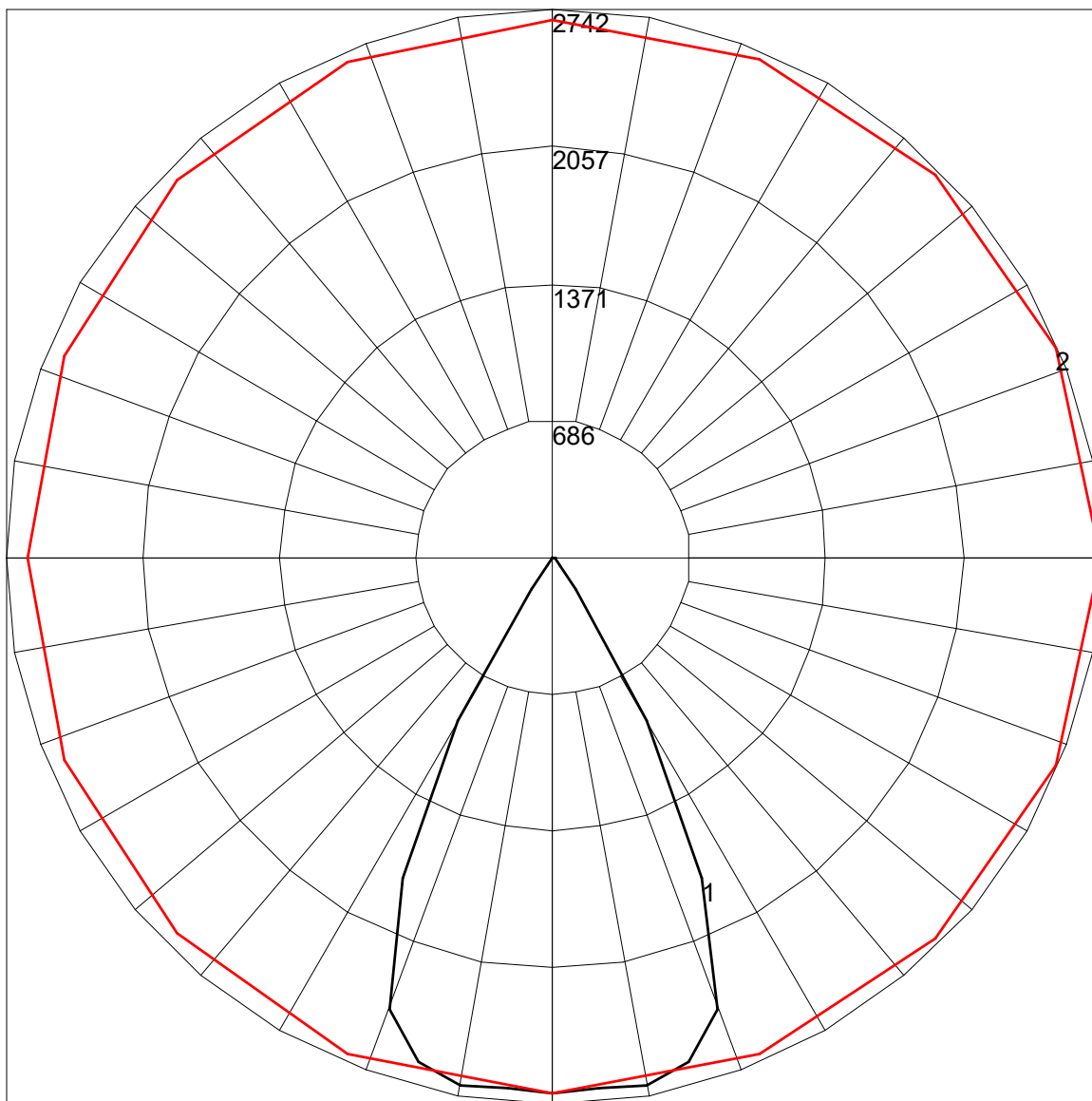
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	116	116	116	116	113	113	113	113	108	108	108	104	104	104	99	99	99	97
1	111	109	106	105	109	107	105	103	103	101	100	99	98	97	96	95	94	92
2	106	102	99	96	104	100	97	95	97	95	93	95	92	91	92	90	89	87
3	102	96	92	89	100	95	91	88	92	89	86	90	87	85	88	86	84	82
4	97	91	86	83	96	90	85	82	88	84	81	86	83	80	84	82	79	78
5	93	86	81	77	92	85	81	77	84	79	76	82	78	76	81	77	75	74
6	89	82	76	73	88	81	76	73	79	75	72	78	74	72	77	74	71	70
7	86	78	72	69	84	77	72	69	76	71	68	75	71	68	74	70	67	66
8	82	74	69	65	81	73	68	65	72	68	65	71	67	64	70	67	64	63
9	79	70	65	62	78	70	65	62	69	64	61	68	64	61	67	64	61	60
10	75	67	62	59	74	67	62	58	66	61	58	65	61	58	64	61	58	57

POLAR GRAPH



Maximum Candela = 2742.396 Located At Horizontal Angle = 0, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)