



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20392.0

[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] TILT ACRYLIC MED TIR OPTIC & 6"OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L20-8TW-DIM-UNV-OM-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	2027
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	24
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.50
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	1075	1075	1075
55	0	0	0
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	6224.723	6224.723	6224.723	6224.723	6224.723	6224.723	6224.723	6224.723	6224.723
5	6210.847	6186.067	6158.313	6114.700	6081.991	6052.255	6034.413	6027.475	6026.484
10	5859.963	5853.024	5767.781	5674.609	5572.515	5473.395	5332.645	5291.015	5190.904
15	4453.453	4460.391	4341.447	4167.988	3883.514	3619.855	3340.337	3115.335	2884.386
20	1973.475	2034.930	1944.730	1814.884	1755.412	1483.823	1285.584	1176.552	1091.309
25	730.513	733.487	715.645	681.944	630.402	581.833	533.265	470.819	467.845
30	326.104	330.069	319.166	307.271	292.403	271.588	249.782	232.932	223.020
35	147.689	150.662	143.724	132.821	131.829	123.900	114.979	107.049	103.085
40	59.472	62.445	57.489	55.507	51.542	49.560	44.604	43.613	41.630
45	13.877	13.877	13.877	12.886	13.877	13.877	12.886	11.894	10.903
50	0.991	1.982	0.991	0.991	1.982	0.000	0.991	1.982	0.991
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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

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Zone	Lumens	%Lamp	%Fixt
0-20	1570.54	N.A.	77.50
0-30	1920.48	N.A.	94.80
0-40	2011.52	N.A.	99.20
0-60	2026.76	N.A.	100.00
0-80	2026.76	N.A.	100.00
0-90	2026.76	N.A.	100.00
10-90	1462.42	N.A.	72.20
20-40	440.98	N.A.	21.80
20-50	455.95	N.A.	22.50
40-70	15.24	N.A.	0.80
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	2026.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	564.34
10-20	1006.2
20-30	349.94
30-40	91.04
40-50	14.97
50-60	0.27
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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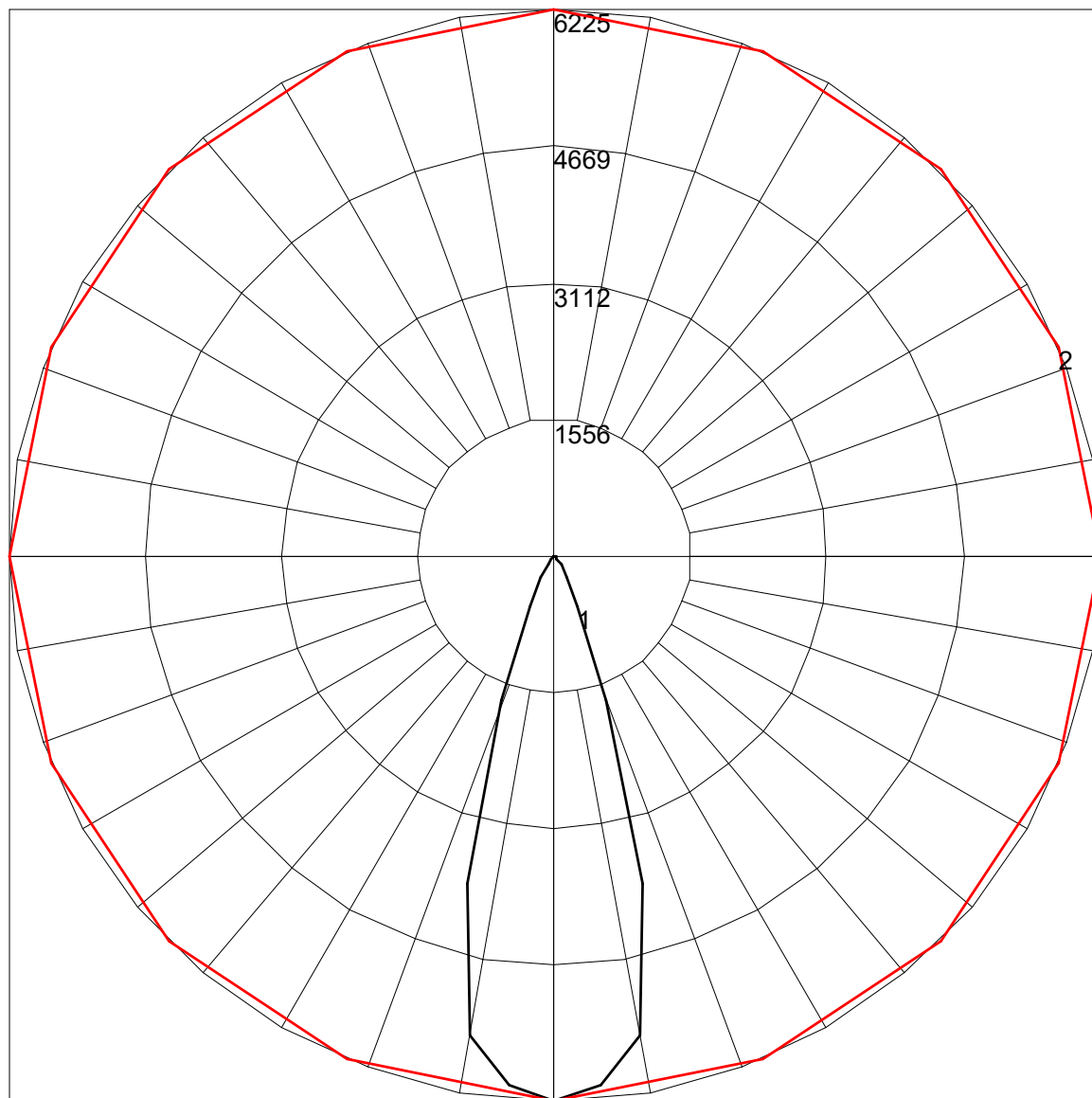
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99
1	114	112	110	108	111	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92
3	106	101	98	95	104	100	97	94	98	95	93	95	93	91	93	91	90	89
4	103	97	93	90	101	96	92	90	94	91	89	92	90	88	91	88	87	85
5	99	93	89	86	98	93	89	86	91	88	85	89	87	84	88	86	84	82
6	96	90	86	82	95	89	85	82	88	84	82	87	84	81	85	83	81	80
7	93	87	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77
8	91	84	79	76	90	83	79	76	82	79	76	81	78	76	81	78	75	74
9	88	81	77	74	87	81	77	74	80	76	74	79	76	73	78	75	73	72
10	85	78	74	71	85	78	74	71	77	74	71	77	73	71	76	73	71	70

POLAR GRAPH



Maximum Candela = 6224.723 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.)