



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L14-9DW-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-L14-9DW-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	1347
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	23.4
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	461	358	614
55	0	63	126
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	1825.948	1825.948	1825.948	1825.948	1825.948	1825.948	1825.948	1825.948	1825.948
5	1833.215	1827.269	1823.966	1818.681	1812.075	1806.129	1796.220	1788.953	1784.329
10	1860.961	1852.373	1838.500	1829.251	1827.930	1826.608	1813.396	1800.844	1786.311
15	1857.658	1841.142	1821.324	1793.578	1779.044	1766.492	1744.031	1697.127	1677.309
20	1709.679	1730.158	1673.345	1662.115	1639.654	1598.695	1560.379	1539.900	1500.924
25	1265.083	1226.767	1262.441	1228.089	1202.985	1124.372	1114.462	1099.268	1075.486
30	731.965	740.553	697.612	650.709	644.102	629.569	600.502	576.719	550.955
35	172.421	158.548	133.445	151.281	133.445	129.481	129.481	116.929	136.087
40	36.995	33.031	29.728	31.049	34.352	32.370	31.710	31.710	27.085
45	5.946	4.624	4.624	6.606	7.927	8.588	7.267	8.588	7.267
50	1.982	1.321	0.661	1.321	1.982	2.642	1.982	2.642	2.642
55	0.000	0.000	0.661	0.661	1.321	0.661	0.000	1.321	0.661
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-L14-9DW-DIM-UNV-OW-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	667.70	N.A.	49.60
0-30	1192.98	N.A.	88.60
0-40	1337.15	N.A.	99.30
0-60	1346.79	N.A.	100.00
0-80	1346.79	N.A.	100.00
0-90	1346.79	N.A.	100.00
10-90	1173.22	N.A.	87.10
20-40	669.45	N.A.	49.70
20-50	678.40	N.A.	50.40
40-70	9.64	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	1346.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	173.57
10-20	494.13
20-30	525.28
30-40	144.17
40-50	8.95
50-60	0.68
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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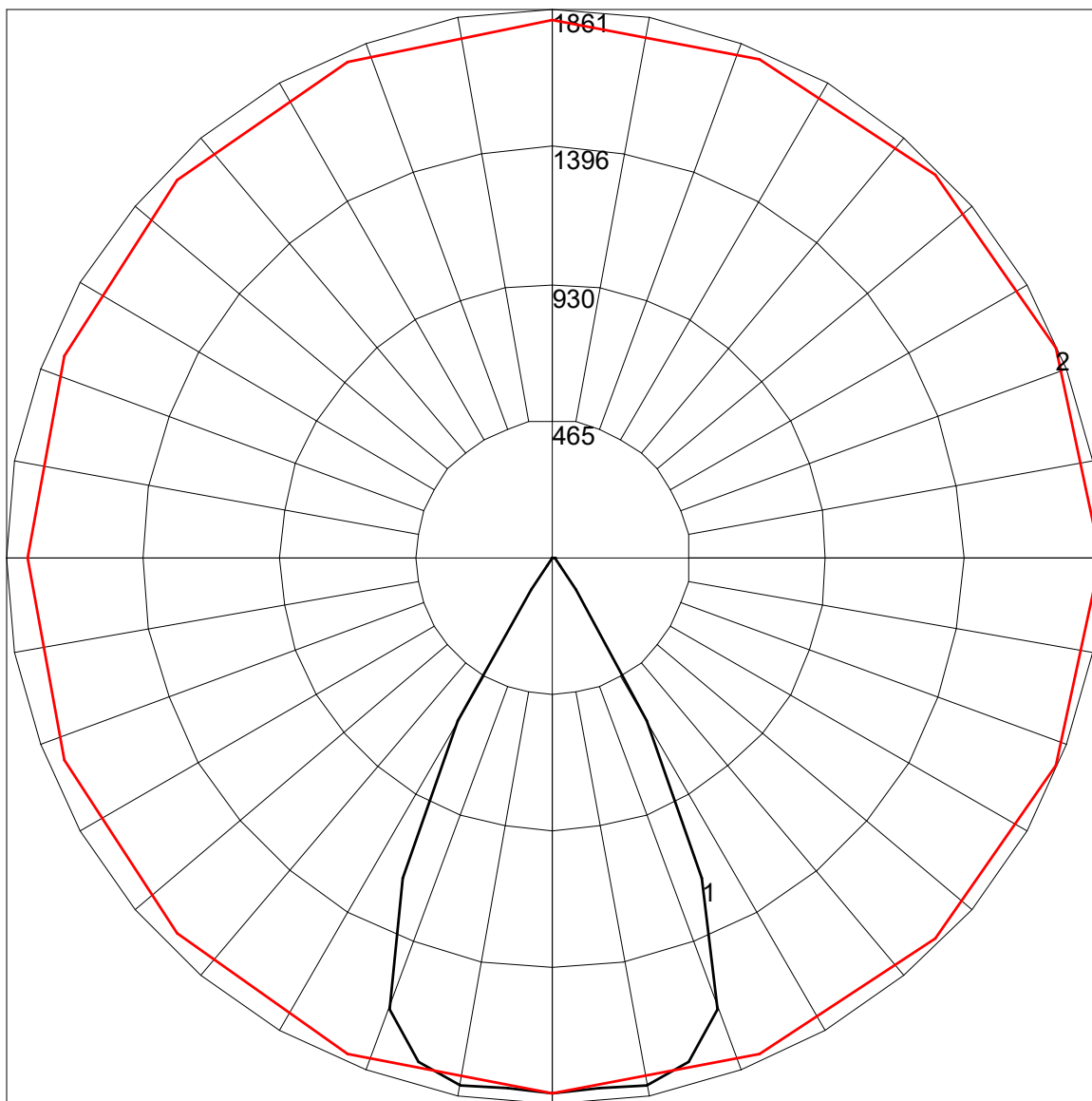
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	62	62	62	61
1	70	68	67	66	68	67	66	65	64	63	63	62	61	61	60	59	59	58
2	67	64	62	60	65	63	61	59	61	59	58	59	58	57	58	57	56	55
3	64	60	58	56	63	60	57	55	58	56	54	57	55	53	55	54	53	52
4	61	57	54	52	60	56	54	51	55	53	51	54	52	50	53	51	50	49
5	59	54	51	49	58	53	51	48	52	50	48	51	49	47	51	49	47	46
6	56	51	48	46	55	51	48	46	50	47	45	49	47	45	48	46	45	44
7	54	49	45	43	53	48	45	43	47	45	43	47	44	43	46	44	42	42
8	51	46	43	41	51	46	43	41	45	42	41	45	42	40	44	42	40	39
9	49	44	41	39	49	44	41	39	43	40	38	43	40	38	42	40	38	37
10	47	42	39	37	47	42	39	37	41	38	37	41	38	36	40	38	36	36

POLAR GRAPH



Maximum Candela = 1860.961 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.)