

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: CORELITE

Report Number: P564879

Luminaire Tested: **SQ4-PW1-0U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564879
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-0U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

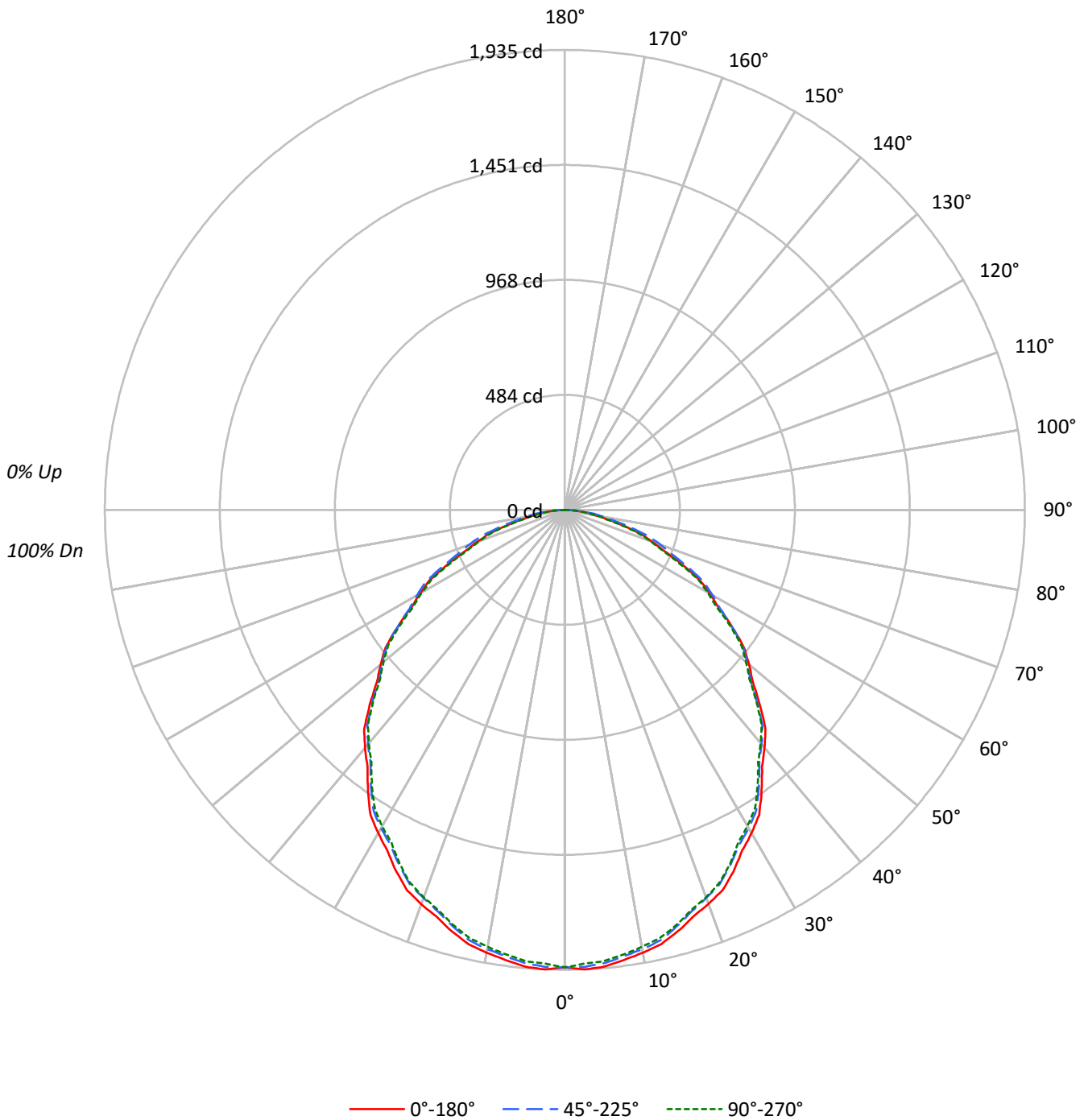
Lumens per Lamp: N/A
Luminaire Lumens: 4896.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11837	11837	11837
5°	11913	11819	11766
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11391	11184	11150
30°	11151	10982	10910
35°	10834	10681	10617
40°	10496	10333	10292
45°	10088	9955	9911
50°	9669	9588	9524
55°	9218	9218	9073
60°	8655	8823	8510
65°	7922	8316	7724
70°	6983	7654	6800
75°	5963	6849	5803
80°	4626	5767	4683
85°	2992	4425	3952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	3.7
10°-20°	511.6	10.4
20°-30°	758.9	15.5
30°-40°	888.0	18.1
40°-50°	884.0	18.1
50°-60°	763.4	15.6
60°-70°	549.5	11.2
70°-80°	288.2	5.9
80°-90°	71.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1451.7	29.6
0°-40°	2339.7	47.8
0°-60°	3987.1	81.4
0°-90°	4896.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4896.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1930	1908	1914	1909	1906	183
15°	1836	1813	1816	1812	1809	518
25°	1678	1650	1648	1638	1643	772
35°	1443	1423	1422	1409	1414	902
45°	1160	1150	1144	1141	1139	895
55°	860	858	860	848	846	767
65°	544	561	571	549	531	539
75°	251	274	288	269	244	269
85°	42	56	63	59	56	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.4	1924.4	1924.4	1924.4	1924.4
2.5°	1935.2	1919.3	1924.4	1920.1	1910.8
5°	1929.5	1907.9	1914.2	1909.1	1905.7
7.5°	1909.8	1889.9	1894.5	1889.1	1887.1
10°	1892.2	1872.3	1876.9	1870.1	1866.7
12.5°	1871.8	1850.6	1855.2	1848.4	1846.4
15°	1836.2	1813.0	1815.9	1812.4	1809.1
17.5°	1794.9	1771.3	1771.8	1766.4	1765.7
20°	1765.0	1740.1	1737.9	1731.2	1734.5
22.5°	1732.5	1706.3	1704.0	1694.6	1699.2
25°	1678.5	1650.4	1648.0	1638.0	1642.9
27.5°	1616.1	1588.3	1588.3	1574.2	1579.5
30°	1570.0	1543.5	1546.3	1529.5	1536.1
32.5°	1521.2	1497.3	1498.8	1482.0	1488.6
35°	1442.9	1423.0	1422.5	1409.1	1414.0
37.5°	1362.8	1345.3	1342.5	1334.7	1336.1
40°	1307.2	1292.3	1286.9	1281.8	1281.8
42.5°	1248.9	1235.3	1229.9	1226.2	1224.8
45°	1159.7	1149.8	1144.5	1141.0	1139.4
47.5°	1071.6	1062.3	1057.7	1055.2	1053.6
50°	1010.5	1003.9	1002.0	996.9	995.3
52.5°	949.5	945.5	943.7	937.2	935.6
55°	859.6	858.0	859.6	847.7	846.1
57.5°	766.0	768.7	774.2	758.1	754.2
60°	703.6	710.3	717.2	698.4	691.8
62.5°	639.9	650.5	660.2	638.7	629.4
65°	544.3	560.8	571.4	548.9	530.7
67.5°	452.0	472.6	485.3	461.0	440.5
70°	388.3	411.5	425.6	401.3	378.1
72.5°	332.7	358.5	370.0	347.0	323.8
75°	250.9	274.1	288.2	269.0	244.2
77.5°	178.0	199.9	211.6	194.9	174.3
80°	130.6	153.8	162.8	148.8	132.2
82.5°	92.6	111.8	118.0	109.6	98.3
85°	42.4	55.7	62.7	59.3	56.0
87.5°	10.9	20.1	25.8	25.8	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)