

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: P564852

Luminaire Tested: **SQ4-PW1-0U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564852  
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-075D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

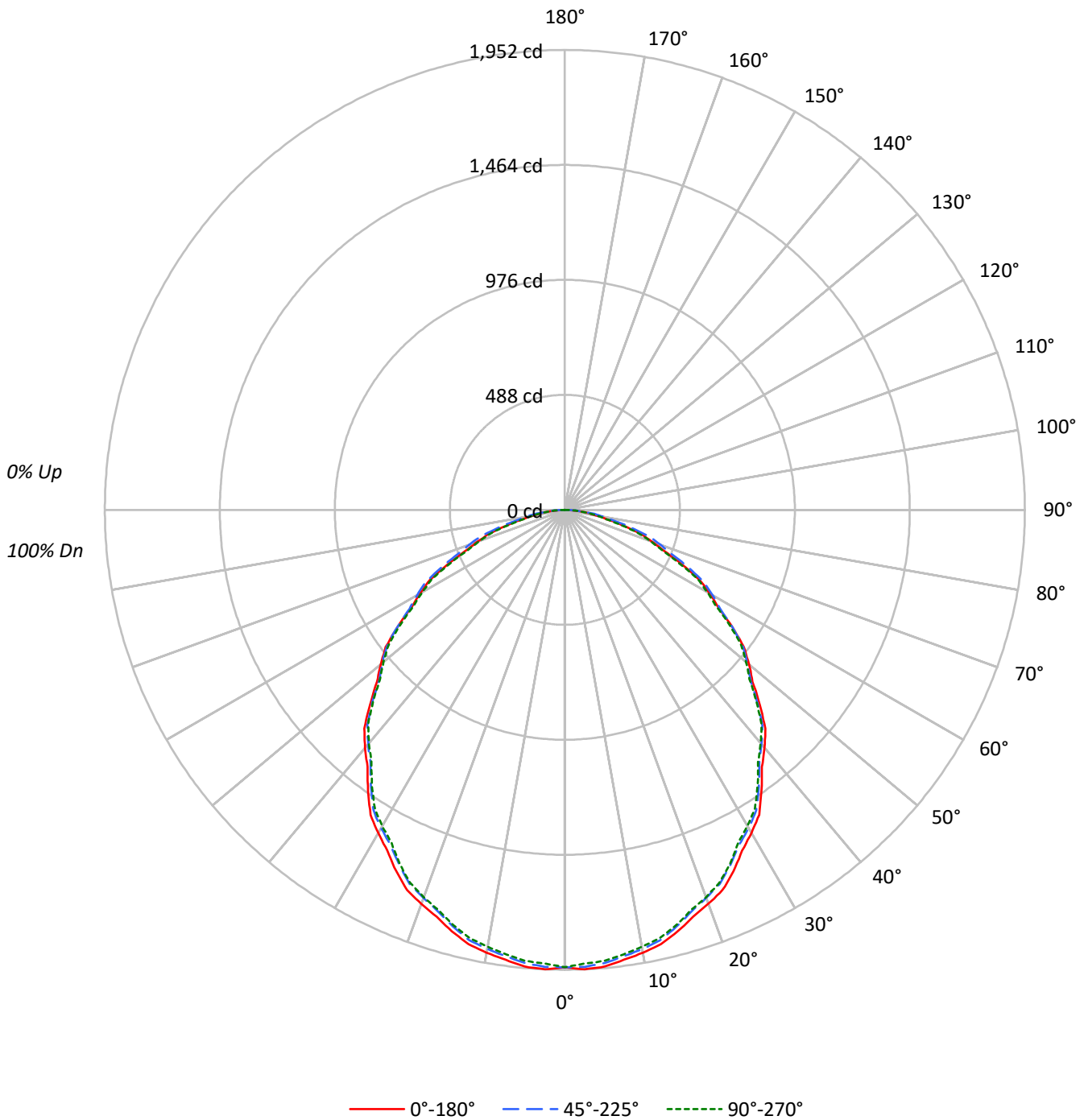
Lumens per Lamp: N/A  
Luminaire Lumens: 4938.3 lumens  
Efficiency: N/A  
Efficacy: 90.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.4  
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°	8954	8954	8954
5°	9012	8941	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8435
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7531	7497
50°	7315	7254	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5144
75°	4511	5181	4390
80°	3499	4362	3544
85°	2265	3350	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.8	3.7
10°-20°	516.0	10.4
20°-30°	765.4	15.5
30°-40°	895.6	18.1
40°-50°	891.6	18.1
50°-60°	769.9	15.6
60°-70°	554.2	11.2
70°-80°	290.6	5.9
80°-90°	72.1	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°	1464.2	29.7
0°-40°	2359.8	47.8
0°-60°	4021.4	81.4
0°-90°	4938.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4938.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1946	1924	1931	1926	1922	184
15°	1852	1829	1832	1828	1825	522
25°	1693	1665	1662	1652	1657	778
35°	1455	1435	1435	1421	1426	910
45°	1170	1160	1154	1151	1149	903
55°	867	865	867	855	853	774
65°	549	566	576	554	535	544
75°	253	276	291	271	246	271
85°	43	56	63	60	56	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1951.9	1935.8	1941.0	1936.6	1927.3
5°	1946.1	1924.3	1930.7	1925.5	1922.1
7.5°	1926.2	1906.2	1910.9	1905.3	1903.3
10°	1908.5	1888.4	1893.1	1886.2	1882.8
12.5°	1887.9	1866.5	1871.2	1864.3	1862.3
15°	1852.0	1828.6	1831.5	1828.0	1824.7
17.5°	1810.3	1786.6	1787.0	1781.6	1780.9
20°	1780.2	1755.1	1752.8	1746.1	1749.4
22.5°	1747.4	1721.0	1718.6	1709.2	1713.9
25°	1693.0	1664.6	1662.2	1652.1	1657.1
27.5°	1630.1	1602.0	1602.0	1587.8	1593.1
30°	1583.5	1556.8	1559.6	1542.7	1549.3
32.5°	1534.3	1510.2	1511.7	1494.8	1501.5
35°	1455.3	1435.2	1434.8	1421.2	1426.2
37.5°	1374.6	1356.8	1354.0	1346.2	1347.6
40°	1318.5	1303.4	1298.0	1292.8	1292.8
42.5°	1259.7	1245.9	1240.5	1236.7	1235.4
45°	1169.7	1159.7	1154.3	1150.9	1149.2
47.5°	1080.8	1071.4	1066.8	1064.3	1062.7
50°	1019.2	1012.5	1010.7	1005.5	1003.8
52.5°	957.7	953.6	951.8	945.3	943.6
55°	867.0	865.3	867.0	855.0	853.3
57.5°	772.6	775.3	780.8	764.7	760.6
60°	709.7	716.4	723.4	704.4	697.7
62.5°	645.4	656.1	665.9	644.1	634.8
65°	548.9	565.7	576.3	553.7	535.3
67.5°	455.9	476.6	489.4	465.0	444.3
70°	391.6	415.0	429.2	404.8	381.4
72.5°	335.5	361.6	373.1	350.0	326.6
75°	253.1	276.5	290.7	271.3	246.3
77.5°	179.6	201.6	213.4	196.5	175.8
80°	131.7	155.1	164.2	150.1	133.4
82.5°	93.4	112.8	119.0	110.6	99.2
85°	42.8	56.1	63.3	59.8	56.4
87.5°	10.9	20.3	26.0	26.0	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)