

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: P564157

Luminaire Tested: **SQ4-PR1-0U-050D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564157  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-050D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

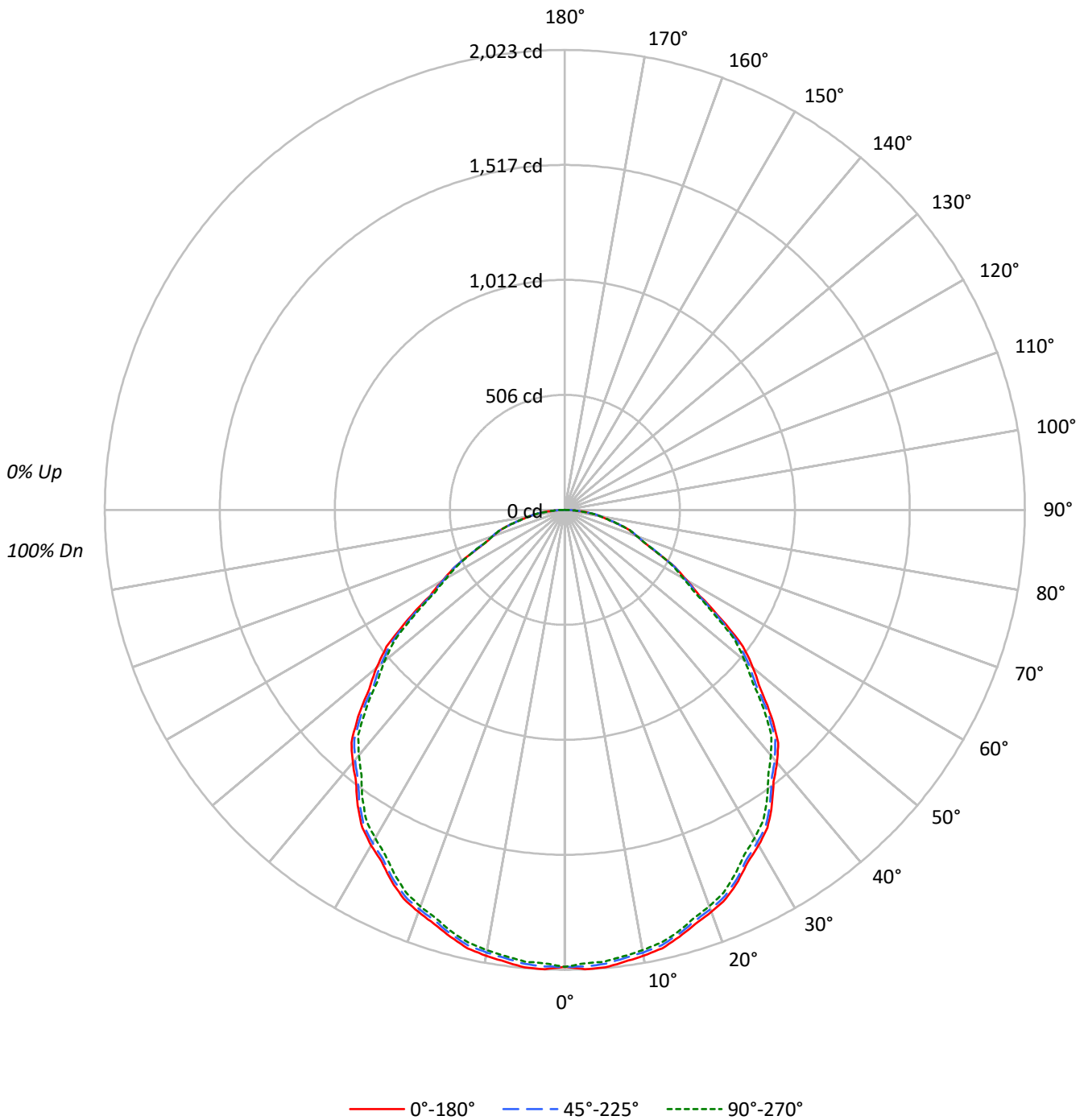
Lumens per Lamp: N/A  
Luminaire Lumens: 5025.6 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 53.4  
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



TEST NUMBER: P564157  
CATALOG NUMBER: SQ4-PR1-0U-050D-940-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P564157

CATALOG NUMBER: SQ4-PR1-0U-050D-940-1D-UNV-STD-W-12

**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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6182	6182	6182
5°	6238	6190	6158
10°	6219	6175	6143
15°	6191	6153	6119
20°	6160	6120	6075
25°	6116	6075	6005
30°	6050	6008	5922
35°	5961	5909	5825
40°	5825	5763	5659
45°	5588	5490	5377
50°	5170	5045	4946
55°	4512	4410	4317
60°	3802	3770	3695
65°	3288	3302	3276
70°	3020	3037	3037
75°	2901	2901	2922
80°	2729	2759	2729
85°	2198	2445	2445



TEST NUMBER: P564157

CATALOG NUMBER: SQ4-PR1-0U-050D-940-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.1	3.8
10°-20°	543.9	10.8
20°-30°	820.4	16.3
30°-40°	977.5	19.5
40°-50°	963.7	19.2
50°-60°	736.5	14.7
60°-70°	455.8	9.1
70°-80°	258.9	5.2
80°-90°	78.7	1.6
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°	1554.4	30.9
0°-40°	2531.9	50.4
0°-60°	4232.2	84.2
0°-90°	5025.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5025.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2021	1999	2005	1998	1995	192
15°	1944	1924	1932	1925	1922	549
25°	1802	1780	1790	1771	1770	830
35°	1588	1569	1574	1553	1552	991
45°	1285	1268	1262	1240	1236	984
55°	842	828	822	809	805	754
65°	452	448	454	450	450	458
75°	244	244	244	246	246	258
85°	62	66	69	69	69	75
90°	0	0	0	0	0	



TEST NUMBER: P564157

CATALOG NUMBER: SQ4-PR1-0U-050D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2022.8	2005.2	2010.3	2006.0	1996.5
5°	2020.7	1998.7	2005.1	1998.1	1994.7
7.5°	2005.1	1983.5	1989.9	1982.9	1980.9
10°	1991.3	1971.0	1977.4	1970.4	1967.0
12.5°	1976.0	1954.4	1962.2	1953.8	1950.4
15°	1944.5	1924.2	1932.4	1925.4	1922.0
17.5°	1909.9	1888.2	1896.4	1888.3	1883.9
20°	1882.2	1861.9	1870.1	1857.9	1856.2
22.5°	1851.7	1831.4	1839.6	1823.3	1823.0
25°	1802.5	1780.5	1790.4	1771.3	1769.6
27.5°	1744.0	1723.7	1731.9	1712.5	1710.4
30°	1703.8	1683.5	1691.7	1670.9	1667.5
32.5°	1658.1	1639.2	1646.0	1625.2	1623.2
35°	1587.8	1569.2	1574.0	1553.2	1551.5
37.5°	1507.8	1490.9	1493.6	1470.7	1469.0
40°	1451.0	1434.1	1435.5	1411.2	1409.5
42.5°	1388.7	1371.8	1370.3	1346.1	1344.4
45°	1284.8	1267.9	1262.3	1239.7	1236.3
47.5°	1166.4	1149.4	1139.0	1120.6	1118.2
50°	1080.5	1063.6	1054.5	1038.8	1033.7
52.5°	987.7	970.7	963.1	948.8	943.7
55°	841.5	828.0	822.5	808.6	805.2
57.5°	702.7	693.5	691.9	678.4	677.0
60°	618.2	613.1	613.0	600.8	600.8
62.5°	546.1	542.4	545.1	537.1	535.7
65°	451.9	448.5	453.7	450.2	450.2
67.5°	377.5	377.5	380.6	379.2	379.2
70°	335.9	335.9	337.7	337.7	337.7
72.5°	298.5	297.2	301.6	301.6	300.3
75°	244.1	244.1	244.1	245.9	245.9
77.5°	190.1	190.5	191.9	191.5	190.1
80°	154.1	155.8	155.8	154.1	154.1
82.5°	118.1	119.8	119.8	119.4	118.1
85°	62.3	65.7	69.3	69.3	69.3
87.5°	18.0	23.4	27.7	27.7	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)