

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: P563289

Luminaire Tested: **SQ4-PP3-050U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563289  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10276.7 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

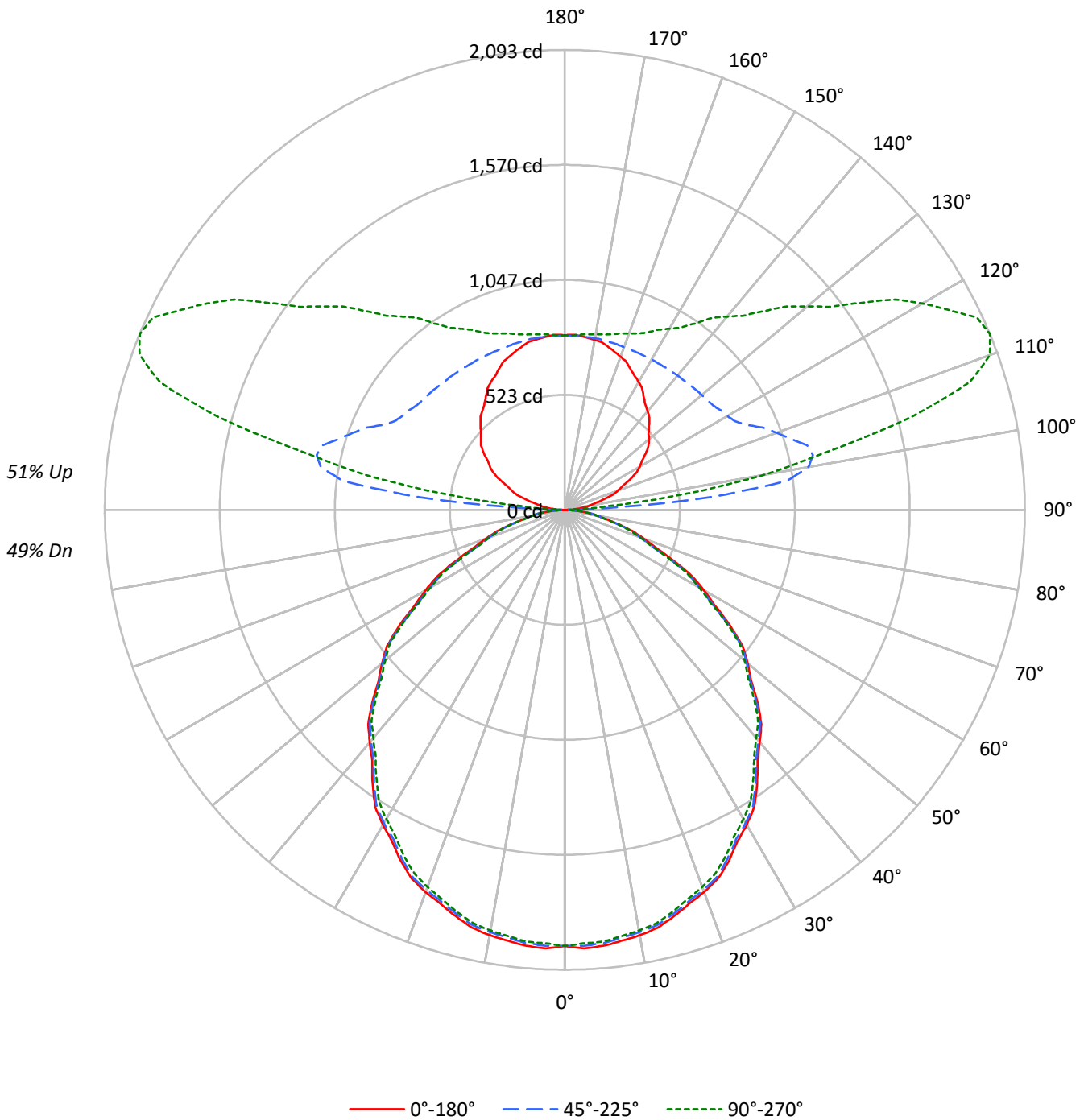
Input Watts (W): 79.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P563289

CATALOG NUMBER: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563289

CATALOG NUMBER: SQ4-PP3-050U-050D-935-1D-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36				
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

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

	0°	45°	90°
0°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5504	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4860	4823
60°	4485	4356	4334
65°	3951	3786	3773
70°	3411	3270	3270
75°	2936	2895	2853
80°	2589	2619	2557
85°	2025	2209	2209



TEST NUMBER: P563289

CATALOG NUMBER: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.7	1.8
10°-20°	536.0	5.2
20°-30°	802.9	7.8
30°-40°	941.8	9.2
40°-50°	944.7	9.2
50°-60°	805.9	7.8
60°-70°	525.6	5.1
70°-80°	263.7	2.6
80°-90°	76.0	0.7
90°-100°	381.7	3.7
100°-110°	1037.0	10.1
110°-120°	1066.3	10.4
120°-130°	852.5	8.3
130°-140°	669.8	6.5
140°-150°	513.6	5.0
150°-160°	369.4	3.6
160°-170°	225.9	2.2
170°-180°	76.1	0.7
0°-30°	1526.7	14.9
0°-40°	2468.4	24.0
0°-60°	4219.1	41.1
0°-90°	5084.4	49.5
90°-120°	2485.0	24.2
90°-150°	4521.0	44.0
90°-180°	5192.0	50.5
0°-180°	10276.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1992	1974	1980	1973	1973	189
15°	1916	1897	1905	1898	1895	540
25°	1764	1744	1752	1736	1735	811
35°	1524	1509	1514	1496	1495	952
45°	1239	1230	1230	1218	1218	954
55°	919	915	906	901	900	816
65°	543	533	520	517	518	542
75°	247	247	244	242	240	268
85°	57	62	63	63	63	68
90°	3	10	18	23	23	6
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

TEST NUMBER: P563289

CATALOG NUMBER: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1985.3	1985.3	1985.3	1985.3	1985.3
2.5°	1997.8	1981.5	1985.3	1982.3	1974.2
5°	1992.3	1973.6	1980.1	1973.1	1973.1
7.5°	1978.7	1958.3	1964.8	1957.8	1957.5
10°	1966.2	1945.8	1952.3	1945.3	1943.6
12.5°	1948.1	1927.7	1935.6	1927.2	1926.9
15°	1915.7	1897.0	1905.3	1898.2	1894.8
17.5°	1879.2	1858.8	1868.7	1859.0	1857.6
20°	1851.3	1830.9	1840.9	1827.0	1827.0
22.5°	1817.9	1797.5	1808.9	1790.8	1790.8
25°	1764.3	1743.9	1752.2	1736.5	1734.8
27.5°	1700.7	1680.6	1689.2	1671.4	1671.1
30°	1654.7	1636.0	1646.0	1626.8	1625.1
32.5°	1604.6	1587.3	1594.5	1575.3	1573.6
35°	1524.2	1508.9	1513.8	1496.3	1494.6
37.5°	1439.7	1424.0	1429.6	1414.6	1413.9
40°	1379.8	1369.6	1371.1	1358.8	1355.4
42.5°	1324.1	1312.6	1314.0	1301.8	1301.2
45°	1238.9	1230.4	1230.2	1218.0	1218.0
47.5°	1148.4	1141.9	1140.0	1129.9	1129.6
50°	1085.7	1080.6	1078.8	1070.0	1068.3
52.5°	1020.3	1017.9	1012.0	1004.7	1004.3
55°	918.7	915.3	906.5	901.3	899.6
57.5°	808.4	801.6	791.7	784.1	785.4
60°	729.1	722.2	708.2	704.7	704.7
62.5°	652.5	644.3	630.2	625.4	628.1
65°	542.9	532.7	520.3	516.8	518.5
67.5°	443.3	434.2	420.7	420.7	419.3
70°	379.3	374.2	363.7	363.7	363.7
72.5°	322.2	319.9	312.2	312.1	310.8
75°	247.1	247.1	243.6	241.8	240.1
77.5°	185.1	185.8	184.1	182.3	179.2
80°	146.2	149.6	147.9	146.1	144.4
82.5°	110.0	113.4	113.1	110.0	109.6
85°	57.4	62.5	62.6	62.6	62.6
87.5°	15.8	22.8	25.9	26.9	28.3
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



TEST NUMBER: P563289

CATALOG NUMBER: SQ4-PP3-050U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)