

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: P564214

Luminaire Tested: **SQ4-PR1-0U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564214  
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-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

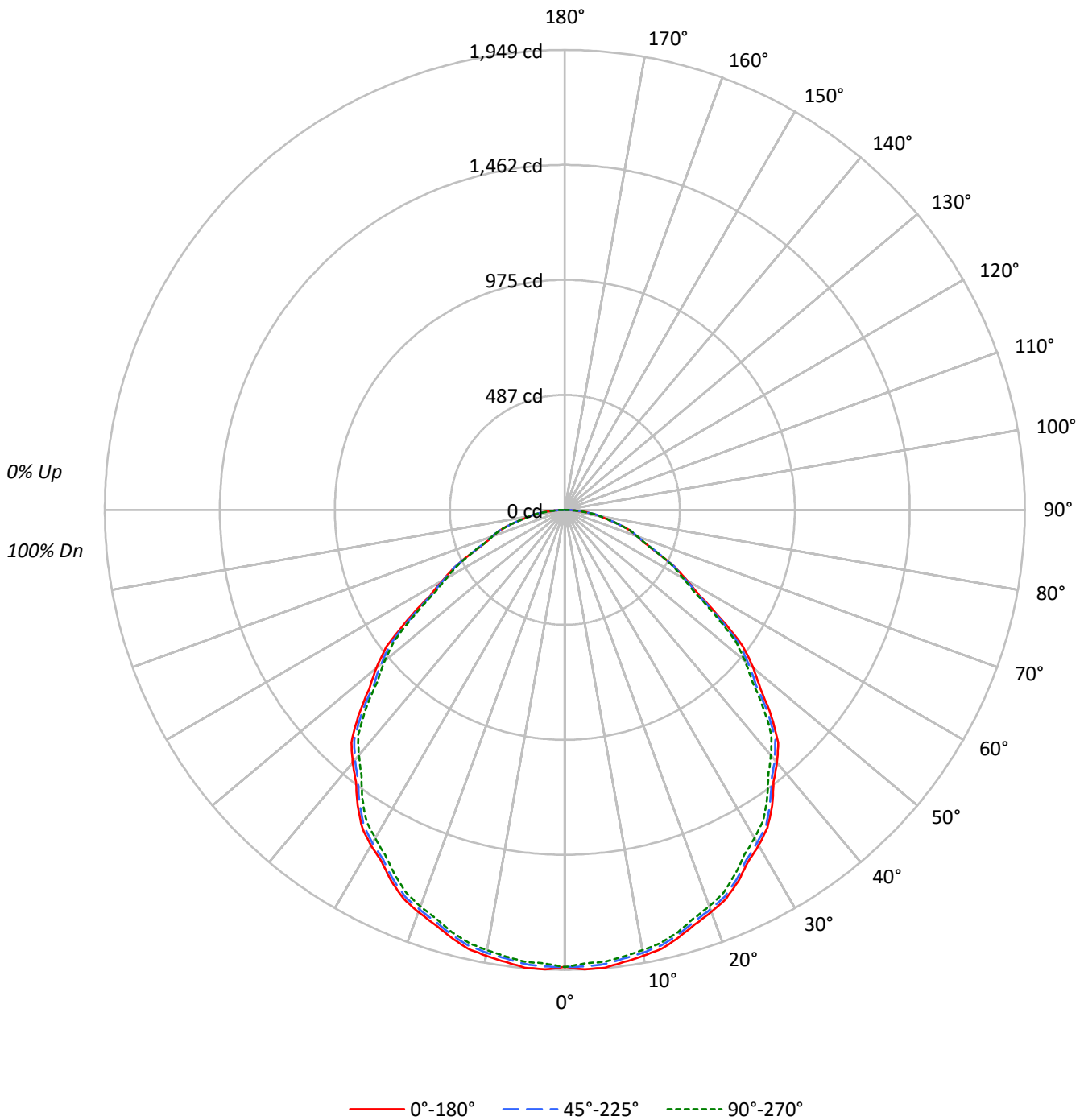
Lumens per Lamp: N/A  
Luminaire Lumens: 4842.8 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.6  
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: P564214  
CATALOG NUMBER: SQ4-PR1-0U-125D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P564214

CATALOG NUMBER: SQ4-PR1-OU-125D-835-1D-UNV-STD-W-4

**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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17807	17694	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17234	17083	16838
40°	16841	16659	16358
45°	16155	15871	15545
50°	14945	14586	14297
55°	13044	12749	12481
60°	10992	10900	10684
65°	9507	9545	9470
70°	8732	8778	8778
75°	8388	8388	8445
80°	7890	7980	7890
85°	6362	7061	7061



TEST NUMBER: P564214

CATALOG NUMBER: SQ4-PR1-0U-125D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	3.8
10°-20°	524.1	10.8
20°-30°	790.6	16.3
30°-40°	941.9	19.5
40°-50°	928.7	19.2
50°-60°	709.8	14.7
60°-70°	439.2	9.1
70°-80°	249.5	5.2
80°-90°	75.9	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°	1497.9	30.9
0°-40°	2439.8	50.4
0°-60°	4078.3	84.2
0°-90°	4842.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4842.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1937	1937	1937	1937	1937	
5°	1947	1926	1932	1926	1922	185
15°	1874	1854	1862	1855	1852	529
25°	1737	1716	1725	1707	1705	799
35°	1530	1512	1517	1497	1495	955
45°	1238	1222	1216	1195	1191	949
55°	811	798	793	779	776	727
65°	436	432	437	434	434	441
75°	235	235	235	237	237	248
85°	60	63	67	67	67	72
90°	0	0	0	0	0	



TEST NUMBER: P564214

CATALOG NUMBER: SQ4-PR1-0U-125D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1937.2	1937.2	1937.2	1937.2	1937.2
2.5°	1949.2	1932.3	1937.2	1933.0	1923.9
5°	1947.2	1926.0	1932.2	1925.5	1922.2
7.5°	1932.2	1911.3	1917.5	1910.8	1908.8
10°	1918.9	1899.3	1905.5	1898.8	1895.5
12.5°	1904.2	1883.3	1890.8	1882.7	1879.5
15°	1873.8	1854.2	1862.1	1855.4	1852.1
17.5°	1840.4	1819.6	1827.4	1819.7	1815.4
20°	1813.7	1794.2	1802.1	1790.3	1788.7
22.5°	1784.4	1764.8	1772.7	1757.0	1756.7
25°	1737.0	1715.8	1725.3	1706.9	1705.3
27.5°	1680.6	1661.0	1668.9	1650.2	1648.2
30°	1641.9	1622.3	1630.2	1610.1	1606.8
32.5°	1597.8	1579.6	1586.1	1566.1	1564.1
35°	1530.1	1512.1	1516.7	1496.7	1495.0
37.5°	1453.0	1436.7	1439.3	1417.3	1415.6
40°	1398.3	1382.0	1383.2	1359.9	1358.2
42.5°	1338.2	1321.9	1320.5	1297.1	1295.5
45°	1238.1	1221.8	1216.4	1194.6	1191.4
47.5°	1124.0	1107.6	1097.6	1079.8	1077.6
50°	1041.2	1024.9	1016.2	1001.0	996.1
52.5°	951.8	935.4	928.1	914.3	909.4
55°	810.9	797.9	792.6	779.2	775.9
57.5°	677.1	668.3	666.8	653.7	652.4
60°	595.7	590.8	590.7	579.0	579.0
62.5°	526.3	522.7	525.3	517.6	516.3
65°	435.5	432.2	437.2	433.8	433.8
67.5°	363.7	363.7	366.8	365.4	365.4
70°	323.7	323.7	325.4	325.4	325.4
72.5°	287.7	286.4	290.7	290.6	289.3
75°	235.3	235.3	235.3	236.9	236.9
77.5°	183.2	183.5	184.9	184.5	183.2
80°	148.5	150.1	150.2	148.5	148.5
82.5°	113.8	115.4	115.5	115.1	113.8
85°	60.1	63.3	66.7	66.7	66.7
87.5°	17.4	22.6	26.7	26.7	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)