

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: P564890

Luminaire Tested: **SQ4-PW1-0U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564890  
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-125D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

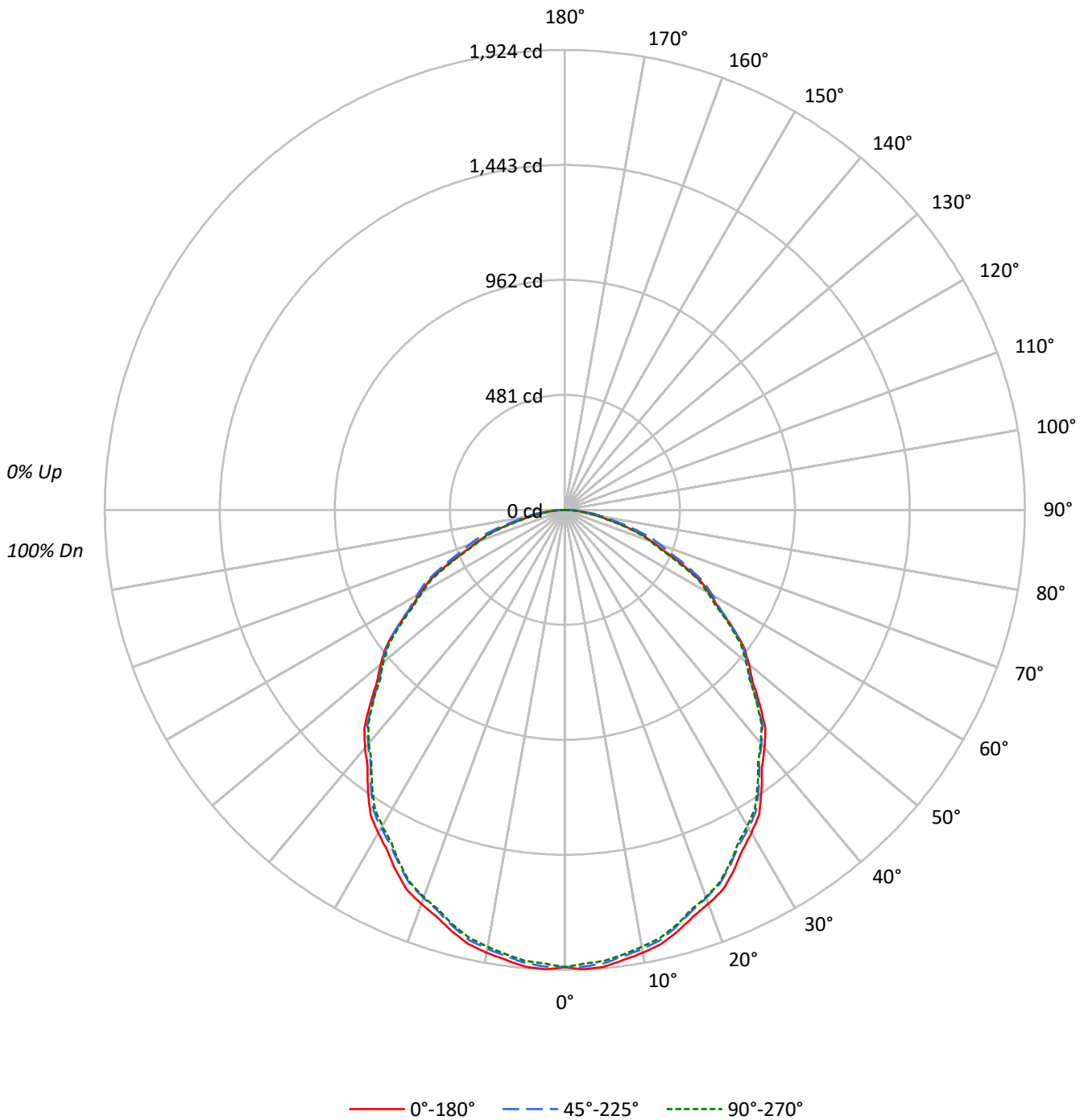
Lumens per Lamp: N/A  
Luminaire Lumens: 4866.9 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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



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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°	17649	17649	17649
5°	17763	17623	17545
10°	17621	17479	17384
15°	17435	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15345
45°	15042	14843	14778
50°	14418	14297	14200
55°	13745	13745	13528
60°	12906	13155	12688
65°	11811	12400	11516
70°	10410	11411	10137
75°	8890	10213	8652
80°	6896	8597	6987
85°	4457	6606	5886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.1	3.7
10°-20°	508.6	10.4
20°-30°	754.4	15.5
30°-40°	882.7	18.1
40°-50°	878.7	18.1
50°-60°	758.8	15.6
60°-70°	546.2	11.2
70°-80°	286.4	5.9
80°-90°	71.0	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°	1443.0	29.7
0°-40°	2325.7	47.8
0°-60°	3963.3	81.4
0°-90°	4866.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4866.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1918	1896	1903	1898	1894	182
15°	1825	1802	1805	1802	1798	514
25°	1668	1640	1638	1628	1633	767
35°	1434	1414	1414	1401	1406	897
45°	1153	1143	1138	1134	1133	889
55°	854	853	854	843	841	762
65°	541	558	568	546	528	536
75°	249	272	286	267	243	267
85°	42	55	62	59	56	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1923.7	1907.9	1912.9	1908.6	1899.4
5°	1918.0	1896.5	1902.8	1897.7	1894.4
7.5°	1898.4	1878.6	1883.2	1877.8	1875.8
10°	1880.9	1861.1	1865.7	1858.9	1855.6
12.5°	1860.6	1839.6	1844.1	1837.3	1835.4
15°	1825.3	1802.2	1805.0	1801.6	1798.3
17.5°	1784.1	1760.7	1761.2	1755.8	1755.1
20°	1754.5	1729.8	1727.5	1720.8	1724.1
22.5°	1722.1	1696.1	1693.8	1684.5	1689.1
25°	1668.5	1640.5	1638.2	1628.2	1633.1
27.5°	1606.5	1578.8	1578.9	1564.8	1570.1
30°	1560.7	1534.3	1537.1	1520.4	1526.9
32.5°	1512.1	1488.4	1489.9	1473.2	1479.8
35°	1434.2	1414.5	1414.0	1400.7	1405.6
37.5°	1354.7	1337.2	1334.5	1326.8	1328.1
40°	1299.4	1284.6	1279.2	1274.1	1274.1
42.5°	1241.4	1227.9	1222.6	1218.8	1217.5
45°	1152.8	1142.9	1137.6	1134.2	1132.6
47.5°	1065.2	1055.9	1051.3	1048.9	1047.3
50°	1004.5	997.9	996.1	991.0	989.3
52.5°	943.8	939.9	938.1	931.6	930.0
55°	854.5	852.8	854.5	842.6	841.0
57.5°	761.5	764.1	769.5	753.6	749.7
60°	699.4	706.0	712.9	694.2	687.6
62.5°	636.1	646.6	656.3	634.8	625.6
65°	541.0	557.5	568.0	545.6	527.5
67.5°	449.3	469.8	482.4	458.3	437.9
70°	385.9	409.0	423.0	398.9	375.8
72.5°	330.7	356.4	367.7	345.0	321.9
75°	249.4	272.5	286.5	267.4	242.7
77.5°	177.0	198.7	210.3	193.7	173.3
80°	129.8	152.8	161.8	147.9	131.5
82.5°	92.0	111.1	117.3	109.0	97.8
85°	42.1	55.3	62.4	58.9	55.6
87.5°	10.8	20.0	25.6	25.6	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)