

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: P564813

Luminaire Tested: **SQ4-PW1-0U-050D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564813  
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-050D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

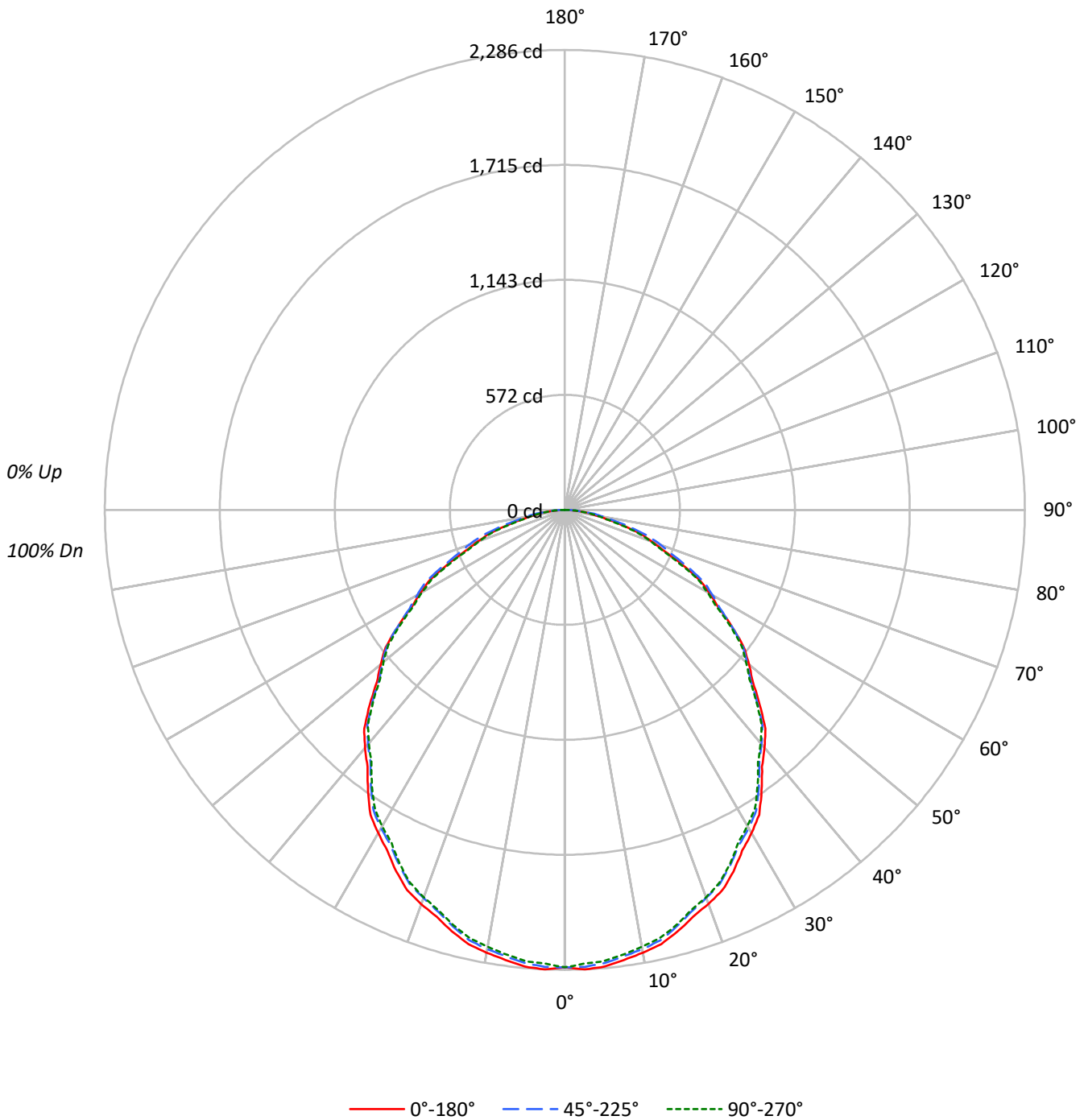
Lumens per Lamp: N/A  
Luminaire Lumens: 5784.2 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

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



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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°	6992	6992	6992
5°	7037	6981	6950
10°	6980	6924	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6606	6586
30°	6587	6487	6444
35°	6400	6309	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5212	5026
65°	4679	4912	4562
70°	4125	4521	4017
75°	3522	4046	3427
80°	2731	3406	2766
85°	1768	2615	2332



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	3.7
10°-20°	604.4	10.4
20°-30°	896.5	15.5
30°-40°	1049.0	18.1
40°-50°	1044.3	18.1
50°-60°	901.8	15.6
60°-70°	649.2	11.2
70°-80°	340.4	5.9
80°-90°	84.4	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°	1715.0	29.6
0°-40°	2764.0	47.8
0°-60°	4710.2	81.4
0°-90°	5784.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5784.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2273	2273	2273	2273	2273	
5°	2279	2254	2261	2255	2251	216
15°	2169	2142	2145	2141	2137	611
25°	1983	1950	1947	1935	1941	912
35°	1705	1681	1680	1665	1670	1066
45°	1370	1358	1352	1348	1346	1057
55°	1016	1014	1016	1002	1000	906
65°	643	662	675	648	627	637
75°	296	324	340	318	288	318
85°	50	66	74	70	66	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2286.2	2267.4	2273.4	2268.3	2257.4
5°	2279.4	2254.0	2261.4	2255.3	2251.4
7.5°	2256.2	2232.7	2238.2	2231.7	2229.3
10°	2235.3	2211.8	2217.3	2209.2	2205.3
12.5°	2211.3	2186.2	2191.7	2183.6	2181.3
15°	2169.2	2141.8	2145.2	2141.1	2137.2
17.5°	2120.4	2092.6	2093.1	2086.7	2085.9
20°	2085.1	2055.7	2053.1	2045.2	2049.1
22.5°	2046.7	2015.7	2013.0	2001.9	2007.4
25°	1983.0	1949.7	1946.9	1935.0	1940.9
27.5°	1909.3	1876.4	1876.4	1859.7	1866.0
30°	1854.8	1823.4	1826.7	1806.9	1814.7
32.5°	1797.1	1768.9	1770.7	1750.8	1758.6
35°	1704.6	1681.1	1680.5	1664.6	1670.5
37.5°	1610.0	1589.3	1586.0	1576.8	1578.4
40°	1544.3	1526.7	1520.3	1514.3	1514.3
42.5°	1475.4	1459.3	1453.0	1448.5	1447.0
45°	1370.1	1358.3	1352.0	1348.0	1346.0
47.5°	1265.9	1254.9	1249.5	1246.6	1244.7
50°	1193.8	1186.0	1183.8	1177.7	1175.8
52.5°	1121.7	1117.0	1114.9	1107.2	1105.3
55°	1015.5	1013.6	1015.5	1001.5	999.5
57.5°	905.0	908.1	914.6	895.6	890.9
60°	831.2	839.1	847.3	825.1	817.2
62.5°	755.9	768.5	780.0	754.5	743.5
65°	643.0	662.5	675.0	648.5	626.9
67.5°	534.0	558.3	573.3	544.7	520.4
70°	458.7	486.1	502.8	474.1	446.7
72.5°	393.0	423.5	437.1	410.0	382.6
75°	296.4	323.9	340.5	317.8	288.4
77.5°	210.3	236.2	250.0	230.2	205.9
80°	154.2	181.6	192.3	175.8	156.2
82.5°	109.4	132.1	139.4	129.5	116.2
85°	50.1	65.7	74.1	70.0	66.1
87.5°	12.8	23.8	30.4	30.5	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)