

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: P562341

Luminaire Tested: **SQ4-PW1-0U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562341  
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-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5180.3 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

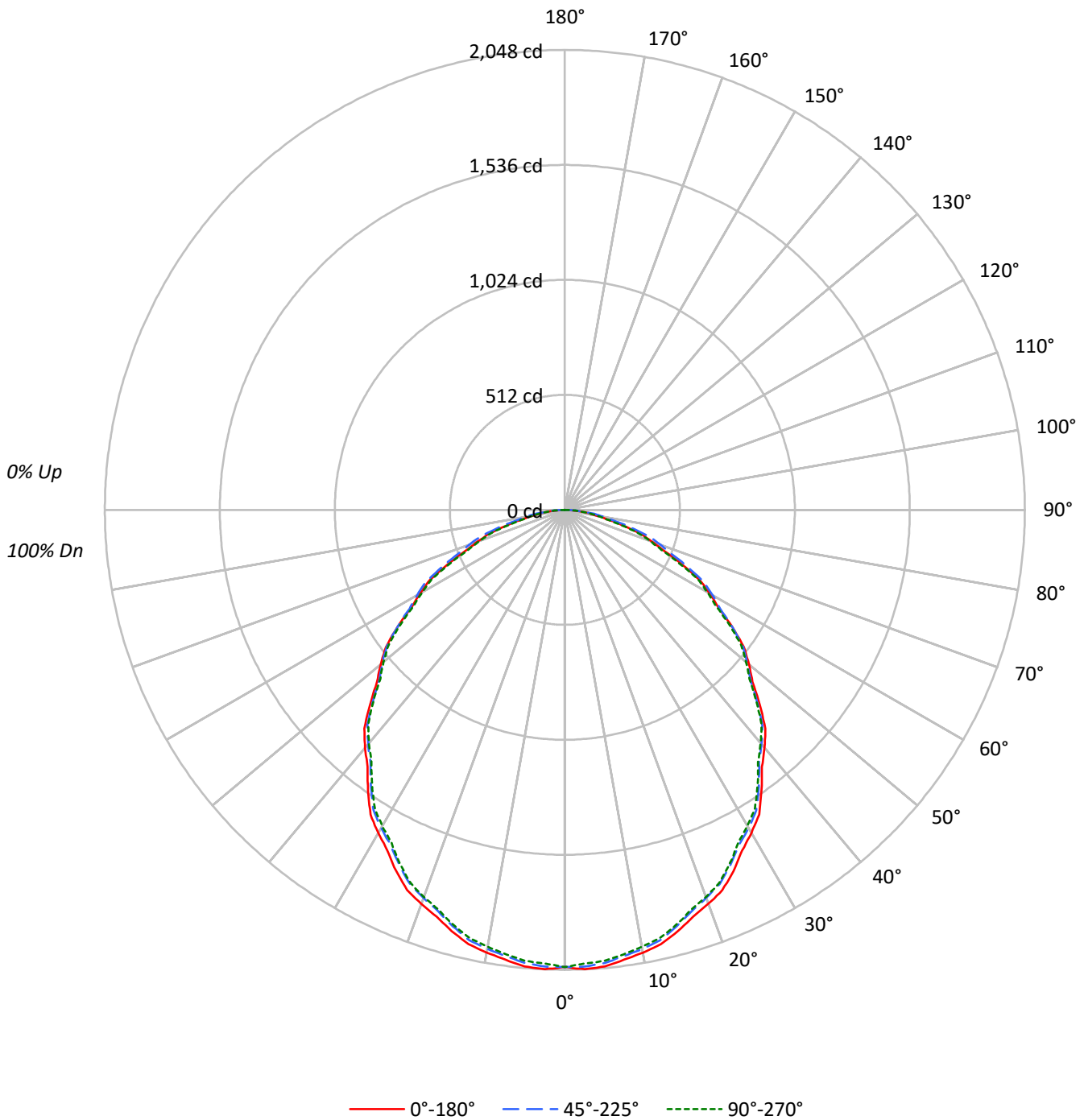
Input Watts (W): 55.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	18785	18785	18785
5°	18906	18757	18674
10°	18756	18604	18504
15°	18557	18351	18283
20°	18335	18053	18018
25°	18079	17750	17696
30°	17697	17429	17315
35°	17194	16952	16851
40°	16658	16399	16334
45°	16010	15800	15729
50°	15347	15217	15114
55°	14630	14630	14398
60°	13738	14002	13505
65°	12570	13197	12258
70°	11082	12147	10790
75°	9464	10872	9208
80°	7337	9149	7433
85°	4742	7029	6267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	3.7
10°-20°	541.3	10.4
20°-30°	802.9	15.5
30°-40°	939.5	18.1
40°-50°	935.3	18.1
50°-60°	807.7	15.6
60°-70°	581.4	11.2
70°-80°	304.9	5.9
80°-90°	75.6	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°	1535.9	29.6
0°-40°	2475.4	47.8
0°-60°	4218.4	81.4
0°-90°	5180.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2041	2019	2025	2020	2016	193
15°	1943	1918	1921	1918	1914	548
25°	1776	1746	1744	1733	1738	817
35°	1527	1506	1505	1491	1496	954
45°	1227	1216	1211	1207	1206	947
55°	910	908	910	897	895	811
65°	576	593	604	581	562	571
75°	266	290	305	285	258	285
85°	45	59	66	63	59	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	2047.5	2030.7	2036.0	2031.5	2021.7
5°	2041.4	2018.6	2025.3	2019.8	2016.3
7.5°	2020.6	1999.6	2004.5	1998.7	1996.6
10°	2002.0	1980.9	1985.8	1978.6	1975.1
12.5°	1980.4	1958.0	1962.9	1955.6	1953.5
15°	1942.8	1918.2	1921.2	1917.6	1914.1
17.5°	1899.0	1874.1	1874.6	1868.8	1868.1
20°	1867.4	1841.1	1838.7	1831.6	1835.1
22.5°	1833.0	1805.3	1802.8	1792.9	1797.8
25°	1775.9	1746.1	1743.6	1733.0	1738.3
27.5°	1709.9	1680.5	1680.5	1665.6	1671.2
30°	1661.1	1633.1	1636.0	1618.2	1625.3
32.5°	1609.5	1584.2	1585.8	1568.0	1575.0
35°	1526.6	1505.5	1505.1	1490.8	1496.1
37.5°	1441.9	1423.3	1420.4	1412.2	1413.6
40°	1383.1	1367.3	1361.6	1356.2	1356.2
42.5°	1321.4	1307.0	1301.3	1297.3	1295.9
45°	1227.0	1216.5	1210.9	1207.2	1205.5
47.5°	1133.7	1123.9	1119.0	1116.5	1114.7
50°	1069.2	1062.1	1060.2	1054.8	1053.0
52.5°	1004.6	1000.4	998.5	991.6	989.9
55°	909.5	907.7	909.5	896.9	895.1
57.5°	810.5	813.3	819.1	802.1	797.9
60°	744.5	751.5	758.8	738.9	731.9
62.5°	677.0	688.2	698.5	675.7	665.9
65°	575.8	593.4	604.5	580.8	561.5
67.5°	478.2	500.0	513.4	487.8	466.0
70°	410.8	435.4	450.3	424.6	400.0
72.5°	352.0	379.3	391.4	367.2	342.6
75°	265.5	290.0	305.0	284.6	258.3
77.5°	188.4	211.5	223.9	206.2	184.4
80°	138.1	162.7	172.2	157.5	139.9
82.5°	97.9	118.3	124.9	116.0	104.0
85°	44.8	58.9	66.4	62.7	59.2
87.5°	11.5	21.3	27.3	27.3	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)