

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521883

Luminaire Tested: **SQ4-WB-0U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521883  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-075D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

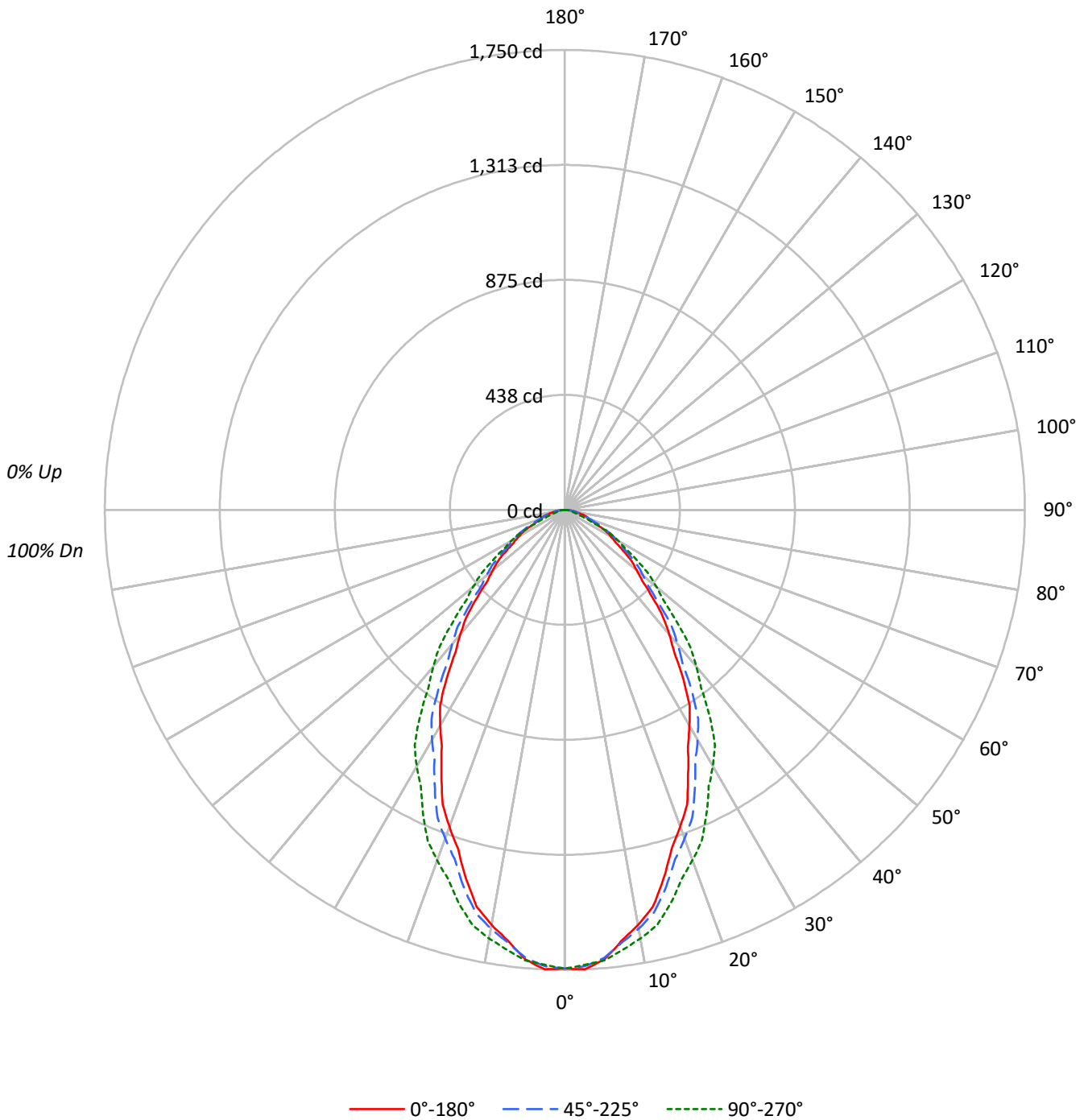
Lumens per Lamp: N/A  
Luminaire Lumens: 2543.8 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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: P521883

CATALOG NUMBER: SQ4-WB-0U-075D-93050-1D-UNV-STD-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P521883

CATALOG NUMBER: SQ4-WB-OU-075D-93050-1D-UNV-STD-W-4 (4000K)

**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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46	41	37	35

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

	0°	45°	90°
0°	16106	16106	16106
5°	15906	15848	15941
10°	15027	15163	15515
15°	13872	14194	14831
20°	12597	13071	13936
25°	11299	11915	12984
30°	10103	10763	11996
35°	8835	9473	10827
40°	7436	8026	9374
45°	6136	6666	7826
50°	5124	5585	6519
55°	4349	4793	5384
60°	3718	4155	4298
65°	2960	3495	2777
70°	2625	2727	1694
75°	2431	2210	1037
80°	2237	2035	898
85°	2022	1863	730



TEST NUMBER: P521883

CATALOG NUMBER: SQ4-WB-OU-075D-93050-1D-UNV-STD-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	6.3
10°-20°	416.5	16.4
20°-30°	539.5	21.2
30°-40°	528.3	20.8
40°-50°	404.4	15.9
50°-60°	269.4	10.6
60°-70°	147.0	5.8
70°-80°	61.3	2.4
80°-90°	17.3	0.7
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°	1116.1	43.9
0°-40°	1644.3	64.6
0°-60°	2318.2	91.1
0°-90°	2543.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1717	1700	1711	1715	1721	160
15°	1452	1447	1486	1526	1553	406
25°	1110	1113	1170	1222	1275	510
35°	784	788	841	898	961	488
45°	470	479	511	550	600	367
55°	270	282	298	309	335	245
65°	136	147	160	140	127	141
75°	68	68	62	43	29	73
85°	19	19	18	11	7	22
90°	0	0	0	0	0	



TEST NUMBER: P521883

CATALOG NUMBER: SQ4-WB-OU-075D-93050-1D-UNV-STD-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1750.0	1734.4	1738.3	1738.2	1733.4
5°	1717.4	1700.1	1711.2	1715.2	1721.2
7.5°	1653.6	1640.6	1660.8	1675.8	1687.9
10°	1604.0	1592.8	1618.5	1640.4	1656.1
12.5°	1546.4	1537.0	1568.9	1598.2	1618.7
15°	1452.3	1447.1	1486.0	1526.5	1552.7
17.5°	1351.7	1349.1	1393.8	1441.0	1474.5
20°	1283.0	1282.3	1331.3	1380.4	1419.4
22.5°	1213.8	1215.4	1267.0	1318.1	1362.4
25°	1109.9	1112.9	1170.4	1221.5	1275.4
27.5°	1013.9	1015.2	1074.7	1128.5	1186.1
30°	948.3	952.0	1010.3	1066.1	1126.0
32.5°	882.7	887.1	944.2	1001.8	1062.9
35°	784.4	788.1	841.1	897.7	961.3
37.5°	683.0	688.1	735.0	788.6	851.2
40°	617.4	624.9	666.4	716.8	778.3
42.5°	554.3	563.6	602.1	649.9	705.3
45°	470.3	479.3	510.9	549.6	599.8
47.5°	398.0	408.3	432.6	465.9	508.8
50°	357.0	366.7	389.1	413.8	454.2
52.5°	320.8	330.5	350.5	369.5	404.0
55°	270.4	281.6	298.0	309.3	334.7
57.5°	229.0	239.8	252.8	257.9	273.3
60°	201.5	213.4	225.2	224.6	232.9
62.5°	176.3	186.5	198.2	190.1	190.6
65°	135.6	146.8	160.1	139.9	127.2
67.5°	109.5	111.9	125.6	97.6	82.4
70°	97.3	97.3	101.1	75.5	62.8
72.5°	85.6	85.6	82.1	61.4	48.1
75°	68.2	68.2	62.0	42.6	29.1
77.5°	52.5	51.9	47.5	31.8	21.1
80°	42.1	42.1	38.3	25.1	16.9
82.5°	32.9	32.9	29.7	19.6	12.6
85°	19.1	19.1	17.6	11.4	6.9
87.5°	6.7	6.7	6.1	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)