

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: P845071

Luminaire Tested: **SQ4P-PP3-025U-125D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845071  
REPORT IS A COMBINATION OF REPORTS P700174 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-025U-125D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

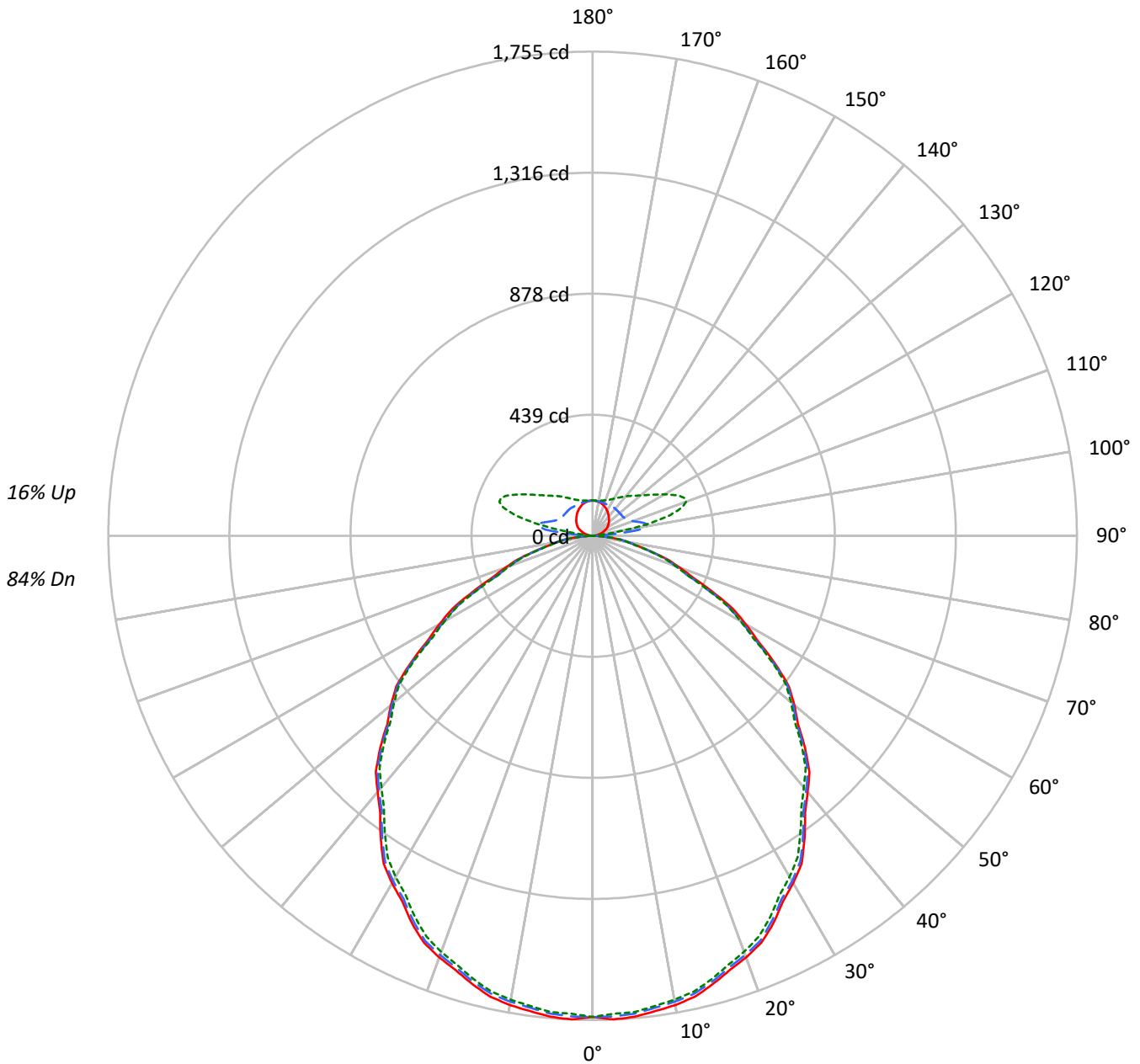
Lumens per Lamp: N/A  
Luminaire Lumens: 5291.4 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 52.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 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	50	30	10	0					
RCR																										
0	115	115	115	115	111	111	111	111	102	102	102	95	95	95	88	88	88	84				84				
1	106	101	97	94	102	98	94	91	91	88	85	84	82	80	78	76	75	72				72				
2	97	89	83	77	93	86	80	75	80	75	71	74	71	67	69	66	64	61				61				
3	88	79	71	65	85	76	69	63	71	65	60	66	61	57	61	58	54	52				52				
4	81	70	62	55	78	67	60	54	63	57	52	59	54	49	55	51	47	44				44				
5	75	62	54	48	71	60	53	47	57	50	45	53	47	43	50	45	41	39				39				
6	69	56	48	42	66	55	47	41	51	44	39	48	42	38	45	40	36	34				34				
7	64	51	43	37	61	49	42	36	47	40	35	44	38	34	41	36	32	30				30				
8	59	47	38	33	57	45	38	32	43	36	31	40	34	30	38	33	29	27				27				
9	56	43	35	30	53	42	34	29	39	33	28	37	31	27	35	30	26	24				24				
10	52	39	32	27	50	38	31	26	36	30	25	34	29	25	33	28	24	22				22				

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

	0°	45°	90°
0°	16089	16089	16089
5°	16207	16107	16051
10°	16179	16066	15995
15°	16073	15985	15896
20°	15966	15874	15755
25°	15775	15668	15512
30°	15485	15403	15207
35°	15079	14975	14785
40°	14595	14503	14338
45°	14200	14099	13959
50°	13687	13601	13468
55°	12978	12809	12712
60°	11815	11479	11422
65°	10413	9975	9942
70°	8983	8616	8616
75°	7743	7625	7514
80°	6817	6907	6732
85°	5335	5822	5822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.9	3.1
10°-20°	470.8	8.9
20°-30°	705.2	13.3
30°-40°	827.2	15.6
40°-50°	829.7	15.7
50°-60°	707.9	13.4
60°-70°	461.6	8.7
70°-80°	231.6	4.4
80°-90°	64.4	1.2
90°-100°	50.8	1.0
100°-110°	176.7	3.3
110°-120°	171.2	3.2
120°-130°	134.2	2.5
130°-140°	106.3	2.0
140°-150°	82.0	1.5
150°-160°	58.8	1.1
160°-170°	36.0	0.7
170°-180°	12.2	0.2
0°-30°	1340.9	25.3
0°-40°	2168.1	41.0
0°-60°	3705.7	70.0
0°-90°	4463.4	84.4
90°-120°	398.6	7.5
90°-150°	721.1	13.6
90°-180°	828.0	15.6
0°-180°	5291.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1750	1734	1739	1733	1733	166
15°	1683	1666	1674	1667	1664	475
25°	1550	1532	1539	1525	1524	713
35°	1339	1325	1330	1314	1313	836
45°	1088	1081	1081	1070	1070	838
55°	807	804	796	792	790	717
65°	477	468	457	454	455	476
75°	217	217	214	212	211	235
85°	50	55	55	55	55	59
90°	2	3	3	2	1	3
95°	9	30	86	22	13	9
105°	30	42	186	313	291	31
115°	51	62	138	291	344	51
125°	70	86	128	217	259	62
135°	84	94	128	181	205	65
145°	98	105	127	156	170	61
155°	111	115	125	139	144	51
165°	122	123	126	131	132	34
175°	128	128	127	128	128	12
180°	128	128	128	128	128	



TEST NUMBER: P845071

CATALOG NUMBER: SQ4P-PP3-025U-125D-B50-1D-UNV

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1754.7	1740.4	1743.8	1741.3	1734.1
5°	1749.9	1733.5	1739.1	1733.1	1733.1
7.5°	1738.0	1720.1	1725.6	1719.6	1719.4
10°	1727.0	1709.1	1714.9	1708.5	1707.3
12.5°	1711.2	1693.3	1700.1	1692.7	1692.5
15°	1682.7	1666.1	1673.5	1667.2	1664.2
17.5°	1650.5	1632.6	1641.4	1632.9	1631.6
20°	1626.1	1608.2	1616.8	1604.7	1604.7
22.5°	1596.8	1578.9	1588.9	1572.8	1572.8
25°	1549.6	1531.7	1539.1	1525.1	1523.8
27.5°	1493.8	1476.1	1483.7	1467.9	1467.7
30°	1453.5	1436.9	1445.8	1429.0	1427.4
32.5°	1409.5	1394.1	1400.5	1383.7	1382.1
35°	1338.8	1325.4	1329.6	1314.4	1312.7
37.5°	1264.6	1250.9	1255.6	1242.4	1241.9
40°	1211.8	1202.9	1204.2	1193.4	1190.5
42.5°	1163.1	1152.8	1154.1	1143.3	1142.8
45°	1088.3	1080.6	1080.6	1069.8	1069.8
47.5°	1008.7	1002.9	1001.3	992.4	992.1
50°	953.6	949.2	947.6	939.9	938.3
52.5°	896.1	894.0	888.8	882.4	882.2
55°	806.8	804.0	796.3	791.5	790.3
57.5°	710.1	704.1	695.4	688.8	689.8
60°	640.3	634.2	622.1	619.0	619.0
62.5°	573.1	566.0	553.6	549.4	551.8
65°	477.0	468.0	456.9	454.0	455.4
67.5°	389.5	381.3	369.4	369.4	368.3
70°	333.0	328.5	319.4	319.4	319.4
72.5°	283.0	280.8	274.3	274.1	272.9
75°	217.2	217.2	213.9	212.4	210.8
77.5°	162.6	163.1	161.7	160.2	157.3
80°	128.3	131.5	130.0	128.3	126.7
82.5°	96.7	99.6	99.3	96.7	96.2
85°	50.4	54.8	55.0	55.0	55.0
87.5°	13.4	18.2	19.5	19.5	20.8
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.3	13.3	5.7	4.8
95°	8.6	29.5	85.7	21.9	13.3
97.5°	13.3	33.3	171.4	78.1	41.9
100°	18.1	35.2	199.9	187.5	120.9
102.5°	23.8	38.1	199.0	263.7	217.1
105°	29.5	41.9	185.6	313.3	291.4



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CATALOG NUMBER: SQ4P-PP3-025U-125D-B50-1D-UNV

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	45.7	56.2	144.7	315.2	359.0
115°	51.4	61.9	138.0	291.4	343.8
117.5°	57.1	68.5	134.2	269.4	321.9
120°	61.9	74.3	131.4	248.5	300.0
122.5°	65.7	80.0	129.5	231.3	278.1
125°	69.5	85.7	128.5	217.1	259.0
127.5°	73.3	89.5	128.5	206.6	241.8
130°	77.1	91.4	127.6	196.1	227.5
132.5°	80.9	92.3	127.6	188.5	215.2
135°	83.8	94.3	127.6	180.9	204.7
137.5°	87.6	96.2	127.6	174.2	196.1
140°	90.4	99.0	127.6	167.6	186.6
142.5°	94.3	101.9	127.6	160.9	178.0
145°	98.1	104.7	126.6	156.1	169.5
147.5°	101.9	107.6	125.7	151.4	161.8
150°	104.7	110.4	125.7	146.6	155.2
152.5°	108.5	113.3	124.7	141.9	149.5
155°	111.4	115.2	124.7	139.0	143.8
157.5°	114.2	118.1	124.7	136.1	139.9
160°	117.1	120.0	125.7	134.2	137.1
162.5°	120.0	121.9	125.7	132.3	134.2
165°	121.9	122.8	125.7	131.4	132.3
167.5°	123.8	124.7	125.7	130.4	130.4
170°	124.7	125.7	126.6	129.5	129.5
172.5°	126.6	126.6	126.6	128.5	128.5
175°	127.6	127.6	126.6	128.5	127.6
177.5°	127.6	127.6	126.6	128.5	127.6
180°	127.6	127.6	127.6	127.6	127.6



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	35.2	46.6	168.5	335.2	339.0
110°	40.0	51.4	155.2	332.4	360.0



(END OF REPORT)