

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: P563446

Luminaire Tested: **SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563446  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

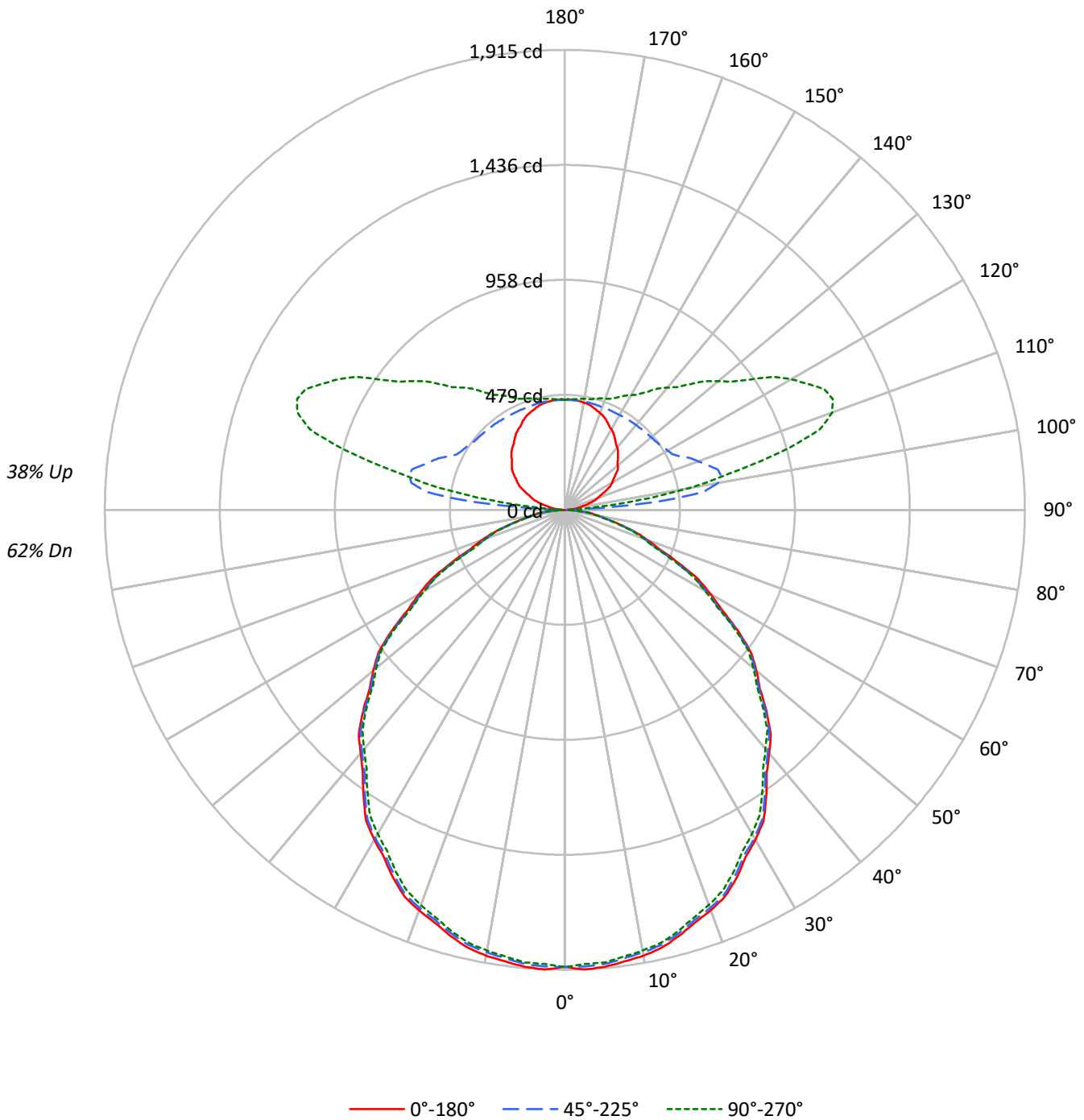
Lumens per Lamp: N/A  
Luminaire Lumens: 7866.6 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 62.1  
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: P563446  
CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563446

CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4

**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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

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

	0°	45°	90°
0°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17544	17448	17353
20°	17427	17328	17198
25°	17219	17101	16931
30°	16901	16812	16599
35°	16459	16346	16140
40°	15933	15832	15651
45°	15497	15389	15236
50°	14940	14846	14702
55°	14168	13980	13874
60°	12898	12529	12466
65°	11363	10889	10852
70°	9811	9406	9406
75°	8445	8324	8206
80°	7444	7534	7359
85°	5833	6362	6362



TEST NUMBER: P563446

CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	2.3
10°-20°	513.9	6.5
20°-30°	769.8	9.8
30°-40°	902.9	11.5
40°-50°	905.7	11.5
50°-60°	772.7	9.8
60°-70°	503.9	6.4
70°-80°	252.8	3.2
80°-90°	71.1	0.9
90°-100°	216.8	2.8
100°-110°	596.3	7.6
110°-120°	615.5	7.8
120°-130°	493.1	6.3
130°-140°	387.3	4.9
140°-150°	296.8	3.8
150°-160°	213.4	2.7
160°-170°	130.5	1.7
170°-180°	44.0	0.6
0°-30°	1463.7	18.6
0°-40°	2366.6	30.1
0°-60°	4045.0	51.4
0°-90°	4872.8	61.9
90°-120°	1428.6	18.2
90°-150°	2605.9	33.1
90°-180°	2994.0	38.1
0°-180°	7866.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1910	1892	1898	1892	1892	181
15°	1837	1819	1827	1820	1817	518
25°	1692	1672	1680	1665	1663	778
35°	1461	1447	1451	1435	1433	913
45°	1188	1180	1179	1168	1168	915
55°	881	878	869	864	862	783
65°	520	511	499	496	497	519
75°	237	237	234	232	230	257
85°	55	60	60	60	60	65
90°	1	4	7	9	9	4
95°	32	118	383	164	105	34
105°	107	164	657	1001	934	112
115°	189	230	527	1049	1191	186
125°	260	296	478	809	948	232
135°	314	348	464	654	740	242
145°	363	388	458	557	600	227
155°	411	424	455	501	515	189
165°	444	450	457	475	478	125
175°	460	460	458	463	462	44
180°	460	460	460	460	460	

TEST NUMBER: P563446

CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1915.4	1899.7	1903.4	1900.5	1892.7
5°	1910.1	1892.1	1898.4	1891.7	1891.7
7.5°	1897.1	1877.5	1883.7	1877.0	1876.7
10°	1885.0	1865.5	1871.7	1865.0	1863.4
12.5°	1867.7	1848.1	1855.7	1847.7	1847.3
15°	1836.7	1818.7	1826.7	1819.9	1816.7
17.5°	1801.6	1782.1	1791.6	1782.3	1781.0
20°	1774.9	1755.4	1764.9	1751.6	1751.6
22.5°	1742.9	1723.3	1734.2	1716.9	1716.9
25°	1691.5	1672.0	1679.9	1664.8	1663.2
27.5°	1630.5	1611.2	1619.5	1602.4	1602.1
30°	1586.4	1568.5	1578.1	1559.7	1558.1
32.5°	1538.4	1521.8	1528.7	1510.3	1508.7
35°	1461.3	1446.6	1451.3	1434.6	1433.0
37.5°	1380.3	1365.2	1370.6	1356.2	1355.6
40°	1322.9	1313.1	1314.5	1302.8	1299.5
42.5°	1269.5	1258.4	1259.8	1248.1	1247.5
45°	1187.7	1179.6	1179.4	1167.7	1167.7
47.5°	1101.0	1094.8	1093.0	1083.3	1083.0
50°	1040.9	1036.1	1034.3	1025.9	1024.3
52.5°	978.2	975.9	970.2	963.2	962.9
55°	880.8	877.5	869.1	864.1	862.5
57.5°	775.0	768.5	759.0	751.7	753.0
60°	699.0	692.4	679.0	675.6	675.6
62.5°	625.6	617.7	604.2	599.6	602.2
65°	520.5	510.7	498.8	495.5	497.1
67.5°	425.1	416.2	403.4	403.3	402.0
70°	363.7	358.8	348.7	348.7	348.7
72.5°	308.9	306.7	299.3	299.2	297.9
75°	236.9	236.9	233.5	231.8	230.2
77.5°	177.5	178.1	176.5	174.8	171.8
80°	140.1	143.4	141.8	140.1	138.5
82.5°	105.4	108.7	108.4	105.4	105.1
85°	55.1	59.9	60.1	60.1	60.1
87.5°	14.9	20.7	22.7	23.1	24.4
90°	1.0	3.8	6.8	8.8	8.8
92.5°	13.5	57.7	99.9	38.4	31.5
95°	32.3	118.3	383.3	163.9	104.6
97.5°	52.6	131.2	584.9	450.7	318.0
100°	67.5	139.2	648.3	654.3	533.9
102.5°	81.5	148.7	664.7	811.8	701.3
105°	106.6	163.9	657.1	1000.7	933.8
107.5°	130.4	182.8	619.7	1093.2	1113.1
110°	147.6	195.4	591.5	1116.2	1185.1

TEST NUMBER: P563446

CATALOG NUMBER: SQ4-PP3-075U-125D-835-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	163.3	209.6	563.4	1101.4	1206.2
115°	188.7	229.8	527.0	1049.4	1190.9
117.5°	213.0	250.8	503.9	976.5	1136.6
120°	227.8	264.1	493.8	921.9	1087.3
122.5°	241.1	277.4	486.7	874.0	1031.0
125°	260.1	296.4	478.1	808.8	947.5
127.5°	278.1	312.7	472.5	754.5	876.1
130°	287.5	322.8	469.3	722.2	833.1
132.5°	298.4	333.8	467.0	693.8	793.9
135°	313.9	348.3	464.4	654.1	740.2
137.5°	328.3	360.3	462.3	622.1	693.0
140°	339.3	368.9	461.5	600.8	664.9
142.5°	348.7	376.0	459.9	581.8	636.7
145°	362.8	387.6	457.6	557.3	600.3
147.5°	377.8	399.2	456.4	535.6	570.0
150°	387.2	406.3	455.6	523.7	550.5
152.5°	395.8	413.4	454.9	513.4	535.6
155°	410.7	424.0	454.7	500.9	515.3
157.5°	421.4	432.3	454.7	490.7	500.6
160°	429.2	437.8	454.7	485.1	492.8
162.5°	435.5	442.6	455.4	480.4	486.5
165°	443.9	449.6	456.6	475.3	478.1
167.5°	449.8	454.2	457.6	470.9	471.7
170°	453.7	456.6	457.6	469.3	469.3
172.5°	456.8	458.2	457.6	467.0	466.2
175°	459.5	460.5	457.6	463.4	462.5
177.5°	460.3	460.3	457.2	461.9	460.3
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)