

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: P563387

Luminaire Tested: **SQ4-PP3-075U-050D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563387  
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-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

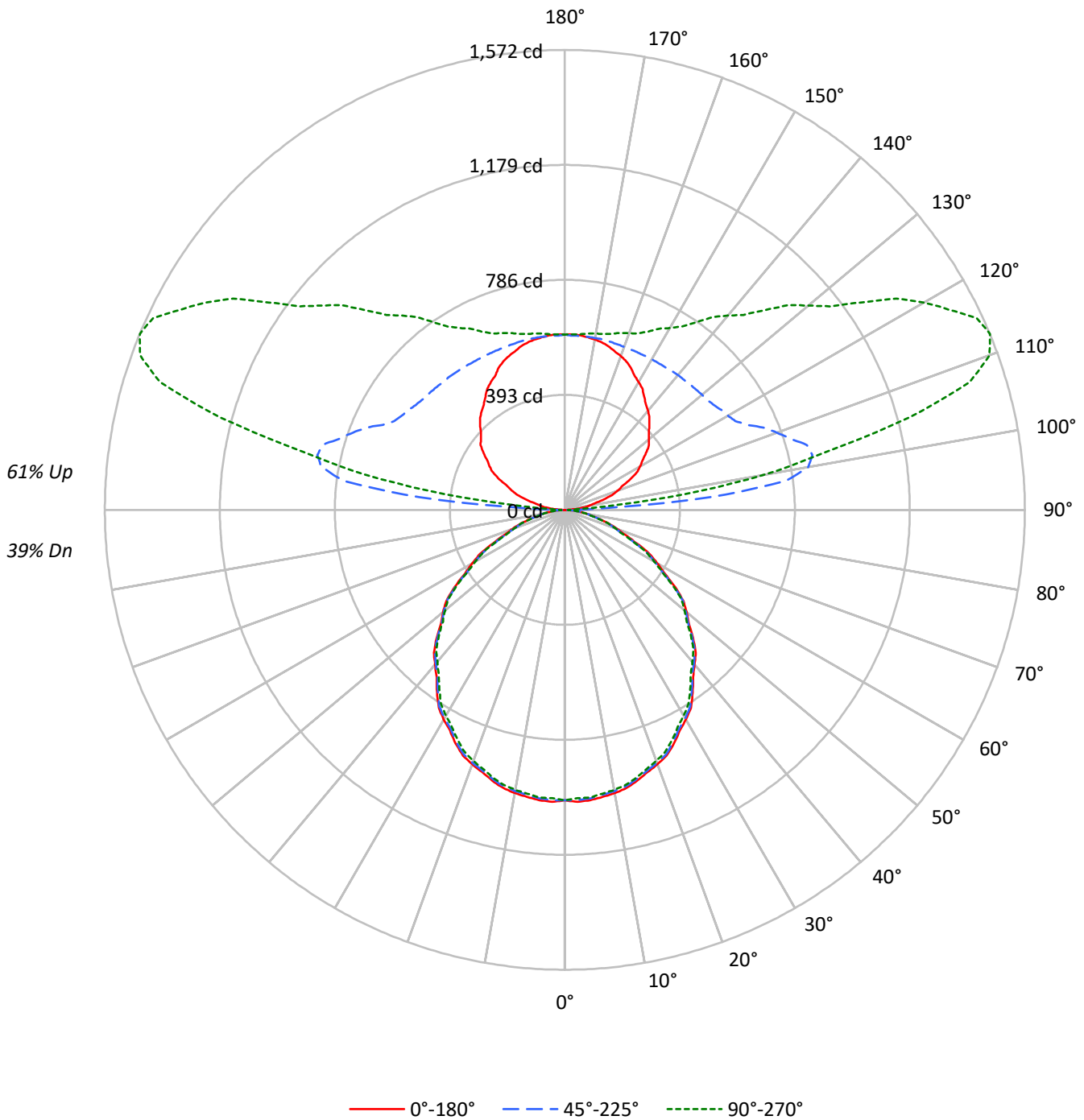
Lumens per Lamp: N/A  
Luminaire Lumens: 6444.1 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 54.3  
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: P563387  
CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563387

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-6

**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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	40	34
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	42	60	51	44	39	42	37	33	34	30	27	26	24	22	18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	24	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	13
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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

	0°	45°	90°
0°	6106	6106	6106
5°	6150	6113	6092
10°	6140	6096	6070
15°	6100	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5505	5441
45°	5388	5350	5297
50°	5195	5161	5112
55°	4926	4861	4823
60°	4484	4356	4334
65°	3950	3786	3774
70°	3412	3269	3269
75°	2935	2895	2854
80°	2589	2618	2557
85°	2025	2209	2209



TEST NUMBER: P563387

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.5
10°-20°	268.0	4.2
20°-30°	401.5	6.2
30°-40°	470.9	7.3
40°-50°	472.4	7.3
50°-60°	403.0	6.3
60°-70°	262.8	4.1
70°-80°	131.8	2.0
80°-90°	38.0	0.6
90°-100°	282.5	4.4
100°-110°	777.2	12.1
110°-120°	802.2	12.4
120°-130°	642.7	10.0
130°-140°	504.8	7.8
140°-150°	386.9	6.0
150°-160°	278.2	4.3
160°-170°	170.1	2.6
170°-180°	57.3	0.9
0°-30°	763.3	11.8
0°-40°	1234.2	19.2
0°-60°	2109.5	32.7
0°-90°	2542.2	39.4
90°-120°	1861.9	28.9
90°-150°	3396.4	52.7
90°-180°	3902.0	60.6
0°-180°	6444.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	996	987	990	987	987	95
15°	958	948	953	949	947	270
25°	882	872	876	868	867	406
35°	762	754	757	748	747	476
45°	619	615	615	609	609	477
55°	459	458	453	451	450	408
65°	271	266	260	258	259	271
75°	124	124	122	121	120	134
85°	29	31	31	31	31	34
90°	1	5	9	12	12	4
95°	42	154	500	214	136	44
105°	139	214	856	1304	1217	146
115°	246	300	687	1368	1552	243
125°	339	386	623	1054	1235	302
135°	409	454	605	852	965	316
145°	473	505	596	726	782	296
155°	535	553	593	653	672	246
165°	579	586	595	619	623	163
175°	599	600	596	604	603	57
180°	599	599	599	599	599	

TEST NUMBER: P563387

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	992.7	992.7	992.7	992.7	992.7
2.5°	998.9	990.8	992.7	991.2	987.1
5°	996.1	986.8	990.0	986.6	986.6
7.5°	989.4	979.1	982.4	978.9	978.7
10°	983.1	972.9	976.1	972.6	971.8
12.5°	974.0	963.8	967.8	963.6	963.4
15°	957.9	948.5	952.6	949.1	947.4
17.5°	939.6	929.4	934.4	929.5	928.8
20°	925.7	915.5	920.4	913.5	913.5
22.5°	909.0	898.8	904.4	895.4	895.4
25°	882.2	872.0	876.1	868.2	867.4
27.5°	850.3	840.3	844.6	835.7	835.5
30°	827.4	818.0	823.0	813.4	812.6
32.5°	802.3	793.6	797.3	787.7	786.8
35°	762.1	754.5	756.9	748.2	747.3
37.5°	719.8	712.0	714.8	707.3	707.0
40°	689.9	684.8	685.6	679.4	677.7
42.5°	662.1	656.3	657.0	650.9	650.6
45°	619.4	615.2	615.1	609.0	609.0
47.5°	574.2	571.0	570.0	565.0	564.8
50°	542.9	540.3	539.4	535.0	534.2
52.5°	510.2	509.0	506.0	502.3	502.2
55°	459.4	457.7	453.3	450.6	449.8
57.5°	404.2	400.8	395.8	392.0	392.7
60°	364.5	361.1	354.1	352.3	352.3
62.5°	326.2	322.2	315.1	312.7	314.1
65°	271.4	266.3	260.1	258.4	259.3
67.5°	221.7	217.1	210.4	210.3	209.7
70°	189.7	187.1	181.8	181.8	181.8
72.5°	161.1	159.9	156.1	156.1	155.4
75°	123.5	123.5	121.8	120.9	120.1
77.5°	92.6	92.9	92.0	91.1	89.6
80°	73.1	74.8	73.9	73.1	72.2
82.5°	55.0	56.7	56.5	55.0	54.8
85°	28.7	31.3	31.3	31.3	31.3
87.5°	7.9	11.4	12.9	13.4	14.1
90°	1.3	5.0	8.9	11.5	11.5
92.5°	17.6	75.2	130.2	50.0	41.0
95°	42.1	154.2	499.5	213.6	136.4
97.5°	68.6	171.0	762.3	587.4	414.4
100°	87.9	181.4	844.9	852.8	695.8
102.5°	106.3	193.8	866.3	1058.0	914.0
105°	138.9	213.7	856.4	1304.2	1217.0
107.5°	170.0	238.3	807.7	1424.8	1450.7
110°	192.4	254.7	771.0	1454.8	1544.5



TEST NUMBER: P563387

CATALOG NUMBER: SQ4-PP3-075U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	212.8	273.1	734.3	1435.5	1572.1
115°	246.0	299.5	686.9	1367.8	1552.2
117.5°	277.6	326.9	656.8	1272.7	1481.3
120°	296.9	344.3	643.6	1201.5	1417.1
122.5°	314.3	361.6	634.4	1139.1	1343.7
125°	339.0	386.3	623.2	1054.2	1234.9
127.5°	362.4	407.5	615.8	983.3	1141.8
130°	374.7	420.8	611.7	941.2	1085.8
132.5°	388.9	435.0	608.6	904.2	1034.8
135°	409.1	453.9	605.3	852.5	964.7
137.5°	427.9	469.5	602.5	810.8	903.3
140°	442.2	480.8	601.5	783.1	866.6
142.5°	454.4	490.1	599.5	758.3	829.9
145°	472.8	505.2	596.4	726.4	782.5
147.5°	492.4	520.3	594.9	698.1	743.0
150°	504.6	529.6	593.9	682.6	717.5
152.5°	515.9	538.8	592.8	669.2	698.1
155°	535.2	552.7	592.6	652.9	671.6
157.5°	549.2	563.5	592.6	639.5	652.5
160°	559.4	570.7	592.6	632.3	642.3
162.5°	567.6	576.8	593.6	626.1	634.1
165°	578.6	586.0	595.1	619.4	623.2
167.5°	586.2	591.9	596.4	613.8	614.8
170°	591.3	595.0	596.4	611.7	611.7
172.5°	595.4	597.1	596.4	608.6	607.6
175°	598.9	600.2	596.4	604.0	602.8
177.5°	600.0	600.0	595.9	602.0	600.0
180°	598.9	598.9	598.9	598.9	598.9

(END OF REPORT)