

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: P563881

Luminaire Tested: **SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563881
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

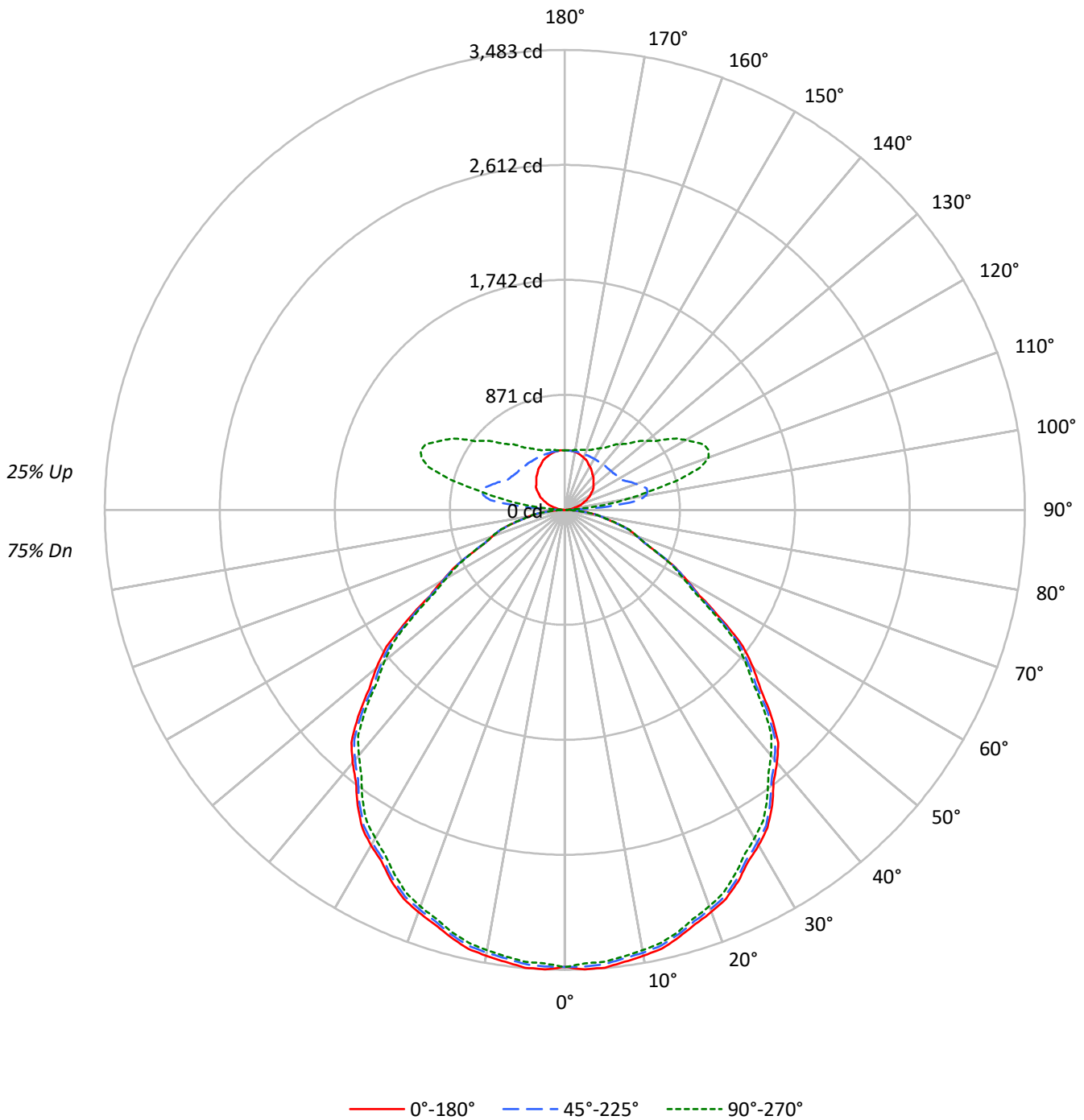
Lumens per Lamp: N/A
Luminaire Lumens: 11583.9 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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: P563881
CATALOG NUMBER: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563881

CATALOG NUMBER: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12

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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10634	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10533	10463	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10032	9924	9745
45°	9623	9454	9260
50°	8902	8689	8517
55°	7770	7594	7435
60°	6548	6493	6364
65°	5664	5686	5642
70°	5202	5229	5229
75°	4995	4995	5031
80°	4700	4754	4700
85°	3786	4210	4210



TEST NUMBER: P563881

CATALOG NUMBER: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.4	2.8
10°-20°	936.7	8.1
20°-30°	1412.8	12.2
30°-40°	1683.3	14.5
40°-50°	1659.6	14.3
50°-60°	1268.4	10.9
60°-70°	784.9	6.8
70°-80°	445.8	3.8
80°-90°	138.0	1.2
90°-100°	220.1	1.9
100°-110°	578.6	5.0
110°-120°	600.0	5.2
120°-130°	481.3	4.2
130°-140°	377.6	3.3
140°-150°	289.8	2.5
150°-160°	208.7	1.8
160°-170°	127.7	1.1
170°-180°	43.1	0.4
0°-30°	2676.9	23.1
0°-40°	4360.2	37.6
0°-60°	7288.2	62.9
0°-90°	8657.0	74.7
90°-120°	1398.7	12.1
90°-150°	2547.3	22.0
90°-180°	2927.0	25.3
0°-180°	11583.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3462	3462	3462	3462	3462	
5°	3480	3442	3453	3441	3435	330
15°	3349	3314	3328	3316	3310	945
25°	3104	3066	3083	3050	3048	1429
35°	2734	2702	2710	2675	2672	1707
45°	2213	2183	2174	2135	2129	1695
55°	1449	1426	1416	1392	1387	1299
65°	778	772	781	775	775	788
75°	420	420	420	423	423	444
85°	107	113	119	119	119	125
90°	3	9	23	12	12	7
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

TEST NUMBER: P563881

CATALOG NUMBER: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3462.0	3462.0	3462.0	3462.0	3462.0
2.5°	3483.4	3453.1	3462.0	3454.4	3438.1
5°	3479.9	3442.0	3453.0	3441.0	3435.1
7.5°	3453.0	3415.7	3426.8	3414.8	3411.3
10°	3429.2	3394.2	3405.3	3393.3	3387.4
12.5°	3402.9	3365.6	3379.1	3364.6	3358.8
15°	3348.7	3313.7	3327.8	3315.7	3309.9
17.5°	3289.0	3251.7	3265.8	3251.9	3244.3
20°	3241.3	3206.3	3220.4	3199.5	3196.6
22.5°	3188.8	3153.8	3168.0	3139.9	3139.3
25°	3104.1	3066.2	3083.3	3050.4	3047.5
27.5°	3003.4	2968.4	2982.5	2949.0	2945.5
30°	2934.2	2899.2	2913.3	2877.4	2871.6
32.5°	2855.5	2822.8	2834.6	2798.7	2795.2
35°	2734.4	2702.3	2710.5	2674.7	2671.8
37.5°	2596.6	2567.5	2572.2	2532.7	2529.8
40°	2498.8	2469.7	2472.0	2430.2	2427.3
42.5°	2391.5	2362.3	2359.9	2318.1	2315.1
45°	2212.6	2183.4	2173.8	2134.9	2129.1
47.5°	2008.6	1979.4	1961.5	1929.8	1925.7
50°	1860.7	1831.5	1816.0	1788.9	1780.2
52.5°	1700.9	1671.7	1658.5	1633.9	1625.1
55°	1449.2	1425.9	1416.4	1392.4	1386.6
57.5°	1210.0	1194.3	1191.6	1168.3	1165.9
60°	1064.5	1055.8	1055.6	1034.7	1034.7
62.5°	940.5	934.1	938.7	924.9	922.6
65°	778.3	772.4	781.3	775.3	775.3
67.5°	650.1	650.1	655.4	653.0	653.0
70°	578.5	578.5	581.5	581.5	581.5
72.5°	514.1	511.7	519.4	519.4	517.1
75°	420.4	420.4	420.4	423.4	423.4
77.5°	327.4	328.0	330.4	329.7	327.4
80°	265.4	268.3	268.4	265.4	265.4
82.5°	203.4	206.3	206.3	205.7	203.4
85°	107.3	113.2	119.3	119.3	119.3
87.5°	31.6	42.1	52.3	50.0	47.6
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

TEST NUMBER: P563881

CATALOG NUMBER: SQ4-PR1-025U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)