

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: P564782

Luminaire Tested: **SQ4-PW1-075U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564782  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-075U-100D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

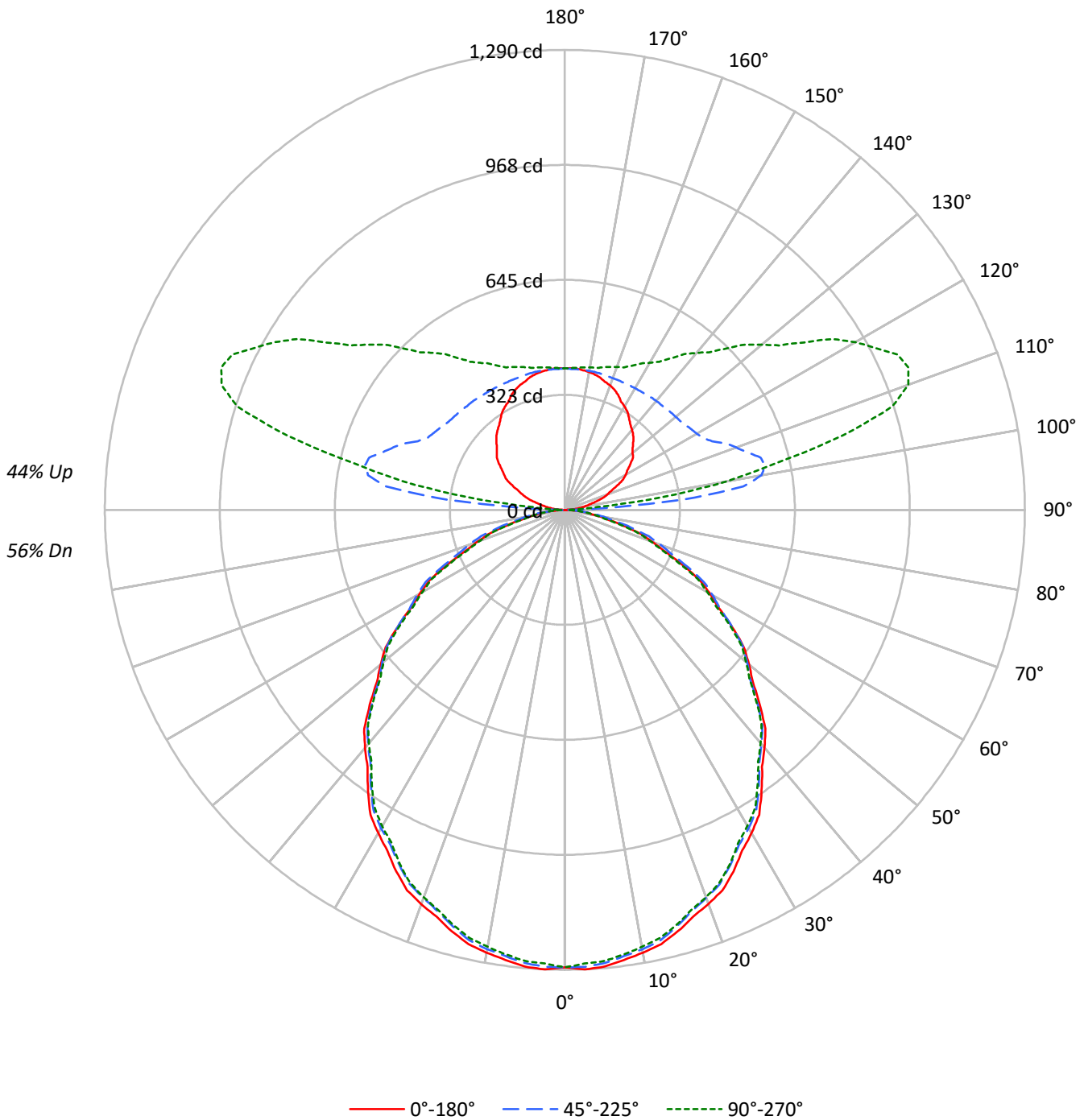
Lumens per Lamp: N/A  
Luminaire Lumens: 5853.2 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 51.3  
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



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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	0
RCR																		
0	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

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

	0°	45°	90°
0°	11836	11836	11836
5°	11913	11819	11767
10°	11818	11723	11659
15°	11692	11563	11520
20°	11553	11376	11353
25°	11391	11185	11150
30°	11151	10983	10910
35°	10834	10681	10618
40°	10496	10333	10292
45°	10087	9955	9911
50°	9670	9588	9523
55°	9219	9219	9072
60°	8656	8822	8510
65°	7920	8315	7724
70°	6981	7653	6801
75°	5964	6851	5803
80°	4622	5765	4686
85°	2996	4425	3949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.8	2.1
10°-20°	341.1	5.8
20°-30°	505.9	8.6
30°-40°	592.0	10.1
40°-50°	589.3	10.1
50°-60°	508.9	8.7
60°-70°	366.3	6.3
70°-80°	192.1	3.3
80°-90°	48.6	0.8
90°-100°	187.4	3.2
100°-110°	515.5	8.8
110°-120°	532.1	9.1
120°-130°	426.3	7.3
130°-140°	334.8	5.7
140°-150°	256.6	4.4
150°-160°	184.5	3.2
160°-170°	112.8	1.9
170°-180°	38.0	0.6
0°-30°	967.8	16.5
0°-40°	1559.8	26.6
0°-60°	2658.0	45.4
0°-90°	3265.1	55.8
90°-120°	1235.0	21.1
90°-150°	2252.7	38.5
90°-180°	2588.0	44.2
0°-180°	5853.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1286	1272	1276	1273	1270	122
15°	1224	1209	1211	1208	1206	345
25°	1119	1100	1099	1092	1095	515
35°	962	949	948	939	943	601
45°	773	766	763	761	760	597
55°	573	572	573	565	564	511
65°	363	374	381	366	354	360
75°	167	183	192	179	163	179
85°	28	37	42	40	37	37
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

TEST NUMBER: P564782

CATALOG NUMBER: SQ4-PW1-075U-100D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1290.2	1279.6	1282.9	1280.1	1273.9
5°	1286.3	1271.9	1276.1	1272.7	1270.5
7.5°	1273.2	1259.9	1263.0	1259.4	1258.1
10°	1261.5	1248.2	1251.3	1246.7	1244.5
12.5°	1247.9	1233.7	1236.8	1232.3	1230.9
15°	1224.1	1208.7	1210.6	1208.3	1206.1
17.5°	1196.6	1180.9	1181.2	1177.6	1177.1
20°	1176.7	1160.1	1158.6	1154.1	1156.3
22.5°	1155.0	1137.5	1136.0	1129.7	1132.8
25°	1119.0	1100.2	1098.7	1092.0	1095.3
27.5°	1077.4	1058.9	1058.9	1049.5	1053.0
30°	1046.7	1029.0	1030.9	1019.7	1024.1
32.5°	1014.1	998.2	999.2	988.0	992.4
35°	961.9	948.6	948.3	939.4	942.7
37.5°	908.6	896.8	895.0	889.8	890.7
40°	871.5	861.5	857.9	854.5	854.5
42.5°	832.6	823.5	819.9	817.4	816.6
45°	773.1	766.5	763.0	760.7	759.6
47.5°	714.4	708.2	705.1	703.5	702.4
50°	673.7	669.3	668.0	664.6	663.5
52.5°	633.0	630.3	629.1	624.8	623.7
55°	573.1	572.0	573.1	565.1	564.0
57.5°	510.7	512.5	516.1	505.4	502.8
60°	469.1	473.5	478.1	465.6	461.2
62.5°	426.6	433.7	440.2	425.8	419.6
65°	362.8	373.9	380.9	366.0	353.8
67.5°	301.3	315.1	323.5	307.4	293.7
70°	258.8	274.3	283.7	267.5	252.1
72.5°	221.8	239.0	246.6	231.4	215.9
75°	167.3	182.8	192.2	179.3	162.8
77.5°	118.7	133.3	141.1	129.9	116.2
80°	87.0	102.5	108.5	99.2	88.2
82.5°	61.7	74.5	78.7	73.1	65.6
85°	28.3	37.1	41.8	39.5	37.3
87.5°	7.4	14.1	18.4	18.7	19.6
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5

TEST NUMBER: P564782

CATALOG NUMBER: SQ4-PW1-075U-100D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)