

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: P564570

Luminaire Tested: **SQ4-PW1-025U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564570  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-100D-830-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

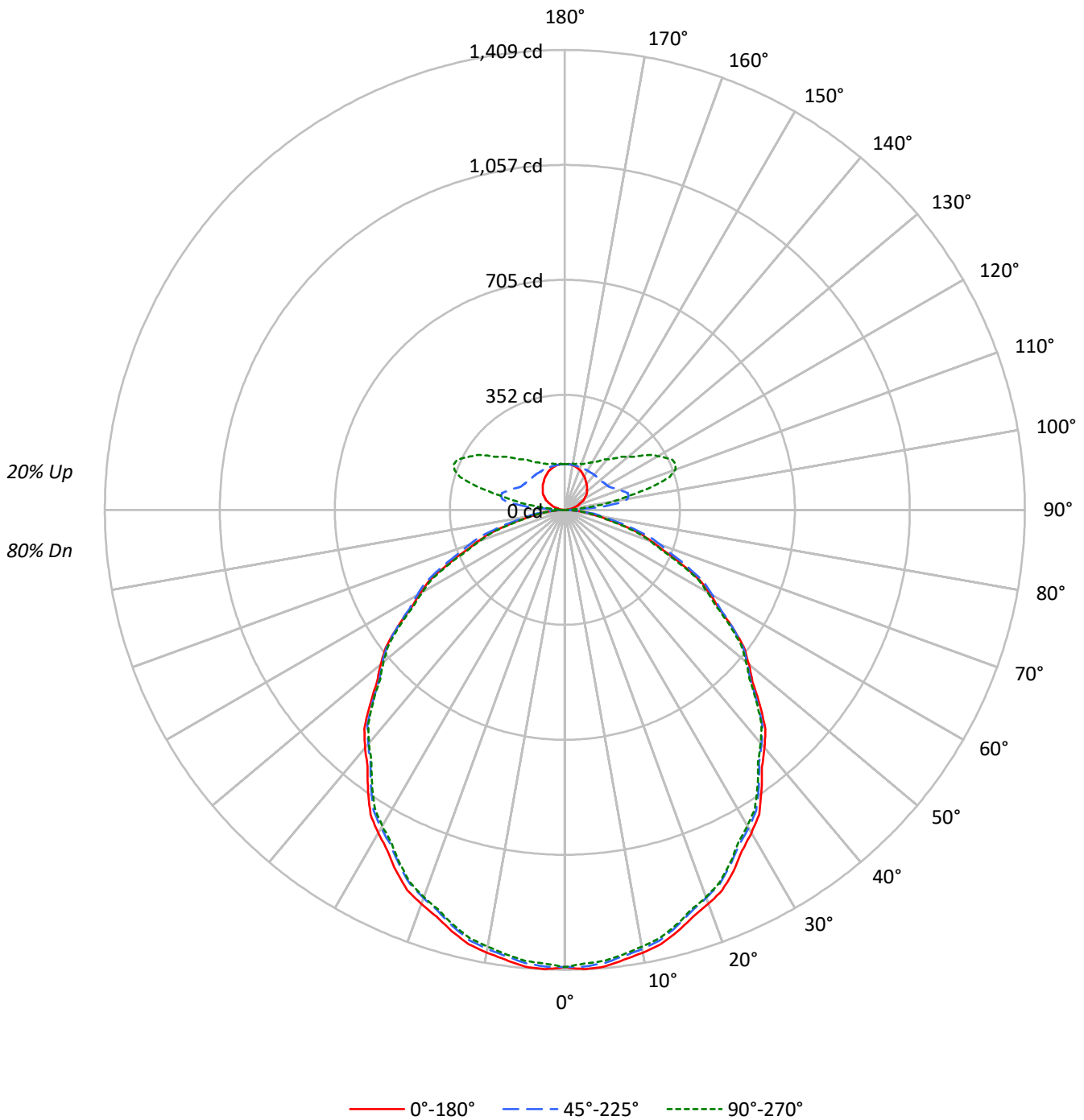
Lumens per Lamp: N/A  
Luminaire Lumens: 4476.5 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 38.7  
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	50	30	10	0	
RCR																						
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	51	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	35	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

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

	0°	45°	90°
0°	12924	12924	12924
5°	13008	12905	12847
10°	12903	12799	12730
15°	12767	12625	12579
20°	12615	12420	12397
25°	12438	12212	12174
30°	12175	11992	11913
35°	11830	11663	11593
40°	11460	11282	11237
45°	11015	10870	10822
50°	10558	10469	10399
55°	10065	10065	9905
60°	9451	9634	9291
65°	8649	9080	8433
70°	7623	8357	7424
75°	6513	7479	6335
80°	5048	6296	5117
85°	3271	4838	4308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.9	2.9
10°-20°	372.4	8.3
20°-30°	552.4	12.3
30°-40°	646.4	14.4
40°-50°	643.5	14.4
50°-60°	555.7	12.4
60°-70°	400.0	8.9
70°-80°	209.7	4.7
80°-90°	52.8	1.2
90°-100°	68.6	1.5
100°-110°	180.2	4.0
110°-120°	186.9	4.2
120°-130°	149.9	3.3
130°-140°	117.6	2.6
140°-150°	90.3	2.0
150°-160°	65.0	1.5
160°-170°	39.8	0.9
170°-180°	13.4	0.3
0°-30°	1056.7	23.6
0°-40°	1703.1	38.0
0°-60°	2902.2	64.8
0°-90°	3564.7	79.6
90°-120°	435.7	9.7
90°-150°	793.5	17.7
90°-180°	912.0	20.4
0°-180°	4476.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1404	1389	1393	1390	1387	133
15°	1337	1320	1322	1319	1317	377
25°	1222	1201	1200	1192	1196	562
35°	1050	1036	1036	1026	1029	657
45°	844	837	833	831	829	651
55°	626	624	626	617	616	558
65°	396	408	416	400	386	393
75°	183	200	210	196	178	196
85°	31	40	46	43	41	41
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

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CATALOG NUMBER: SQ4-PW1-025U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1400.8	1400.8	1400.8	1400.8	1400.8
2.5°	1408.7	1397.1	1400.8	1397.7	1390.9
5°	1404.5	1388.8	1393.4	1389.6	1387.2
7.5°	1390.2	1375.7	1379.1	1375.1	1373.6
10°	1377.3	1362.8	1366.2	1361.2	1358.8
12.5°	1362.5	1347.1	1350.4	1345.5	1344.0
15°	1336.6	1319.7	1321.8	1319.3	1316.9
17.5°	1306.5	1289.4	1289.7	1285.7	1285.3
20°	1284.8	1266.7	1265.0	1260.1	1262.6
22.5°	1261.1	1242.0	1240.3	1233.5	1236.9
25°	1221.8	1201.3	1199.6	1192.3	1195.9
27.5°	1176.4	1156.1	1156.2	1145.9	1149.7
30°	1142.8	1123.5	1125.6	1113.3	1118.2
32.5°	1107.3	1089.9	1091.0	1078.8	1083.6
35°	1050.3	1035.8	1035.5	1025.7	1029.3
37.5°	992.0	979.2	977.2	971.6	972.5
40°	951.5	940.7	936.7	933.0	933.0
42.5°	909.1	899.2	895.3	892.5	891.6
45°	844.2	836.9	833.1	830.6	829.4
47.5°	780.0	773.2	769.9	768.1	766.9
50°	735.6	730.7	729.4	725.7	724.5
52.5°	691.1	688.2	686.9	682.2	681.0
55°	625.7	624.5	625.7	617.1	615.8
57.5°	557.6	559.5	563.5	551.9	549.0
60°	512.2	517.0	522.1	508.4	503.5
62.5°	465.8	473.5	480.6	464.9	458.1
65°	396.2	408.2	415.9	399.6	386.3
67.5°	329.0	344.0	353.2	335.6	320.6
70°	282.6	299.5	309.8	292.1	275.2
72.5°	242.1	261.0	269.3	252.6	235.7
75°	182.7	199.6	209.8	195.8	177.7
77.5°	129.6	145.5	154.0	141.8	126.9
80°	95.0	111.9	118.5	108.3	96.3
82.5°	67.4	81.4	85.9	79.8	71.6
85°	30.9	40.5	45.7	43.1	40.7
87.5°	8.1	15.2	20.2	19.5	20.5
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7

TEST NUMBER: P564570

CATALOG NUMBER: SQ4-PW1-025U-100D-830-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)