

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: P564828

Luminaire Tested: **SQ4-PW1-0U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564828  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PW1-0U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

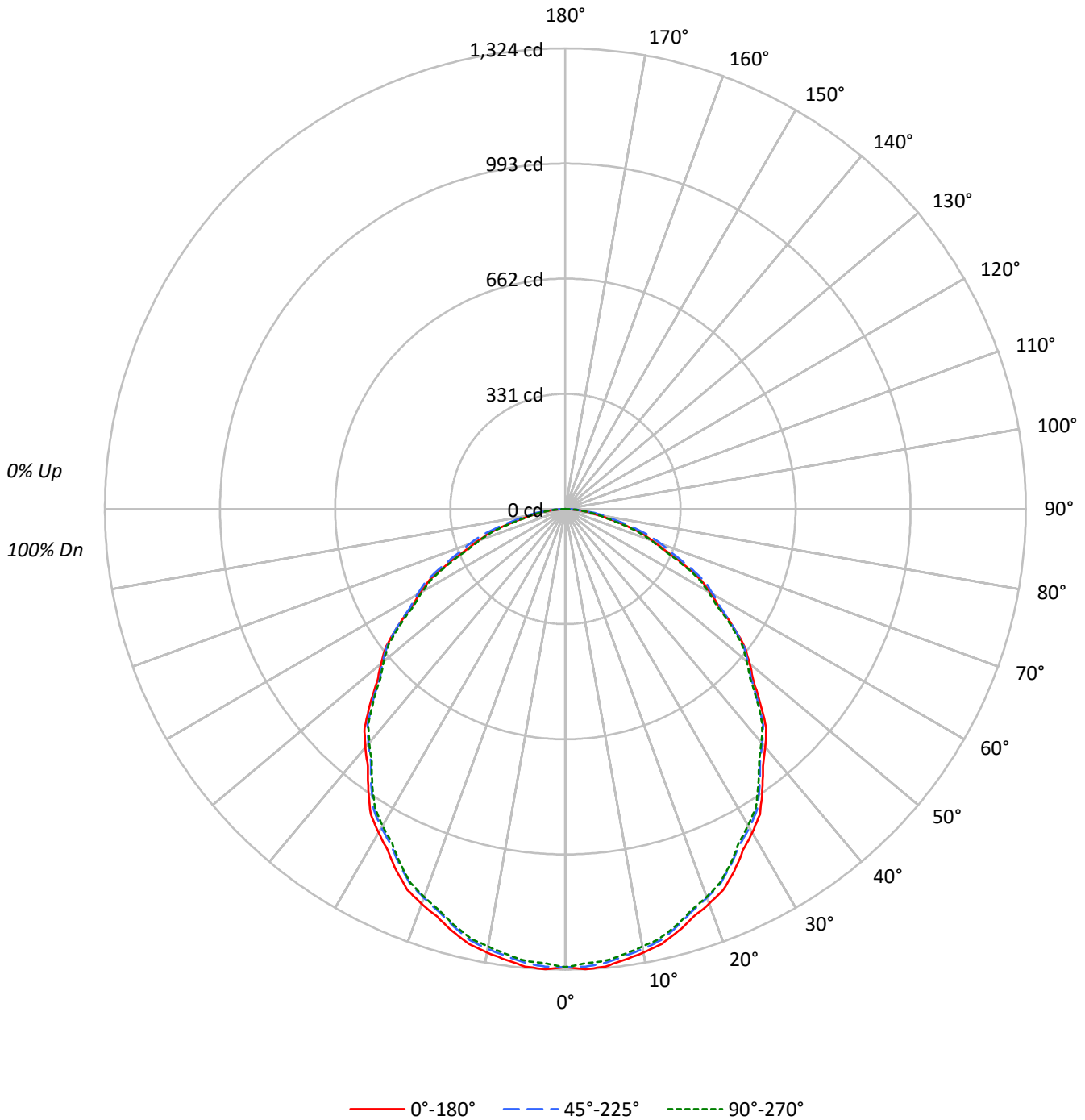
Lumens per Lamp: N/A  
Luminaire Lumens: 3350.5 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	6075	6075	6075
5°	6114	6066	6039
10°	6066	6016	5984
15°	6001	5934	5912
20°	5929	5838	5827
25°	5847	5740	5723
30°	5723	5637	5599
35°	5561	5482	5450
40°	5387	5303	5282
45°	5177	5110	5087
50°	4963	4921	4888
55°	4732	4732	4657
60°	4442	4528	4368
65°	4065	4268	3965
70°	3584	3928	3489
75°	3060	3515	2978
80°	2372	2959	2404
85°	1535	2271	2027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	3.7
10°-20°	350.1	10.4
20°-30°	519.3	15.5
30°-40°	607.7	18.1
40°-50°	604.9	18.1
50°-60°	522.4	15.6
60°-70°	376.0	11.2
70°-80°	197.2	5.9
80°-90°	48.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	993.4	29.7
0°-40°	1601.1	47.8
0°-60°	2728.4	81.4
0°-90°	3350.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1317	1317	1317	1317	1317	
5°	1320	1306	1310	1306	1304	125
15°	1257	1241	1243	1240	1238	354
25°	1149	1129	1128	1121	1124	528
35°	987	974	974	964	968	617
45°	794	787	783	781	780	612
55°	588	587	588	580	579	525
65°	372	384	391	376	363	369
75°	172	188	197	184	167	184
85°	29	38	43	41	38	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1316.9	1316.9	1316.9	1316.9	1316.9
2.5°	1324.3	1313.4	1316.9	1314.0	1307.6
5°	1320.4	1305.6	1309.9	1306.4	1304.1
7.5°	1306.9	1293.3	1296.5	1292.7	1291.4
10°	1294.9	1281.2	1284.4	1279.7	1277.4
12.5°	1280.9	1266.4	1269.6	1264.9	1263.5
15°	1256.6	1240.7	1242.6	1240.3	1238.0
17.5°	1228.3	1212.1	1212.5	1208.7	1208.3
20°	1207.8	1190.8	1189.3	1184.7	1186.9
22.5°	1185.6	1167.6	1166.1	1159.6	1162.8
25°	1148.7	1129.4	1127.8	1120.9	1124.3
27.5°	1106.0	1086.9	1086.9	1077.3	1080.9
30°	1074.4	1056.3	1058.2	1046.7	1051.2
32.5°	1041.0	1024.6	1025.7	1014.2	1018.7
35°	987.4	973.8	973.5	964.3	967.7
37.5°	932.6	920.6	918.7	913.4	914.3
40°	894.6	884.4	880.6	877.2	877.2
42.5°	854.6	845.3	841.7	839.1	838.2
45°	793.6	786.8	783.2	780.8	779.7
47.5°	733.3	726.9	723.8	722.1	721.0
50°	691.5	687.0	685.7	682.2	681.1
52.5°	649.7	647.0	645.8	641.4	640.2
55°	588.3	587.1	588.3	580.1	579.0
57.5°	524.2	526.0	529.8	518.8	516.1
60°	481.5	486.0	490.8	477.9	473.4
62.5°	437.9	445.1	451.8	437.0	430.7
65°	372.4	383.8	391.0	375.6	363.2
67.5°	309.3	323.4	332.1	315.5	301.4
70°	265.7	281.6	291.2	274.6	258.7
72.5°	227.6	245.3	253.2	237.5	221.6
75°	171.7	187.6	197.2	184.1	167.1
77.5°	121.8	136.8	144.8	133.3	119.3
80°	89.3	105.2	111.4	101.8	90.5
82.5°	63.4	76.5	80.8	75.0	67.3
85°	29.0	38.1	42.9	40.6	38.3
87.5°	7.4	13.8	17.6	17.7	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)