

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: P564148

Luminaire Tested: **SQ4-PR1-0U-050D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564148  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PR1-0U-050D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

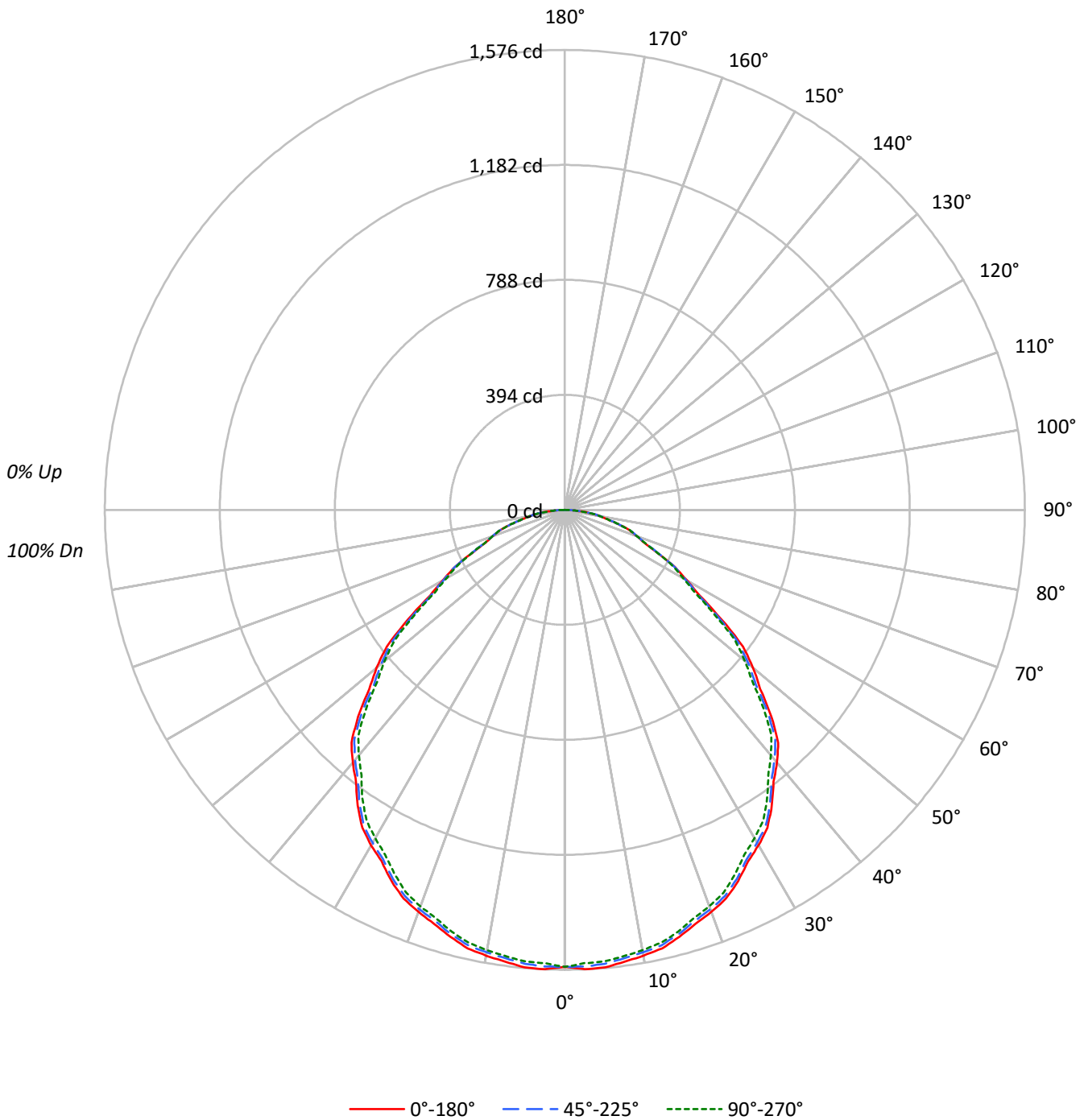
Lumens per Lamp: N/A  
Luminaire Lumens: 3914.6 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

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

	0°	45°	90°
0°	7224	7224	7224
5°	7289	7233	7195
10°	7266	7215	7177
15°	7234	7189	7150
20°	7197	7151	7098
25°	7147	7099	7016
30°	7070	7019	6919
35°	6965	6904	6806
40°	6807	6733	6612
45°	6529	6415	6283
50°	6040	5895	5779
55°	5272	5153	5044
60°	4442	4406	4318
65°	3842	3858	3828
70°	3530	3547	3547
75°	3390	3390	3413
80°	3188	3225	3188
85°	2572	2858	2858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	3.8
10°-20°	423.7	10.8
20°-30°	639.0	16.3
30°-40°	761.4	19.5
40°-50°	750.7	19.2
50°-60°	573.7	14.7
60°-70°	355.0	9.1
70°-80°	201.7	5.2
80°-90°	61.3	1.6
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°	1210.8	30.9
0°-40°	1972.2	50.4
0°-60°	3296.6	84.2
0°-90°	3914.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1574	1557	1562	1556	1554	149
15°	1515	1499	1505	1500	1497	427
25°	1404	1387	1395	1380	1378	646
35°	1237	1222	1226	1210	1208	772
45°	1001	988	983	966	963	767
55°	656	645	641	630	627	587
65°	352	349	353	351	351	357
75°	190	190	190	192	192	201
85°	49	51	54	54	54	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1565.9	1565.9	1565.9	1565.9	1565.9
2.5°	1575.6	1561.9	1565.9	1562.5	1555.1
5°	1574.0	1556.9	1561.9	1556.4	1553.8
7.5°	1561.9	1545.0	1550.0	1544.6	1543.0
10°	1551.1	1535.3	1540.3	1534.8	1532.2
12.5°	1539.2	1522.3	1528.4	1521.9	1519.2
15°	1514.7	1498.8	1505.2	1499.8	1497.1
17.5°	1487.7	1470.8	1477.2	1470.9	1467.5
20°	1466.1	1450.3	1456.7	1447.2	1445.9
22.5°	1442.4	1426.5	1432.9	1420.2	1420.0
25°	1404.1	1386.9	1394.6	1379.8	1378.4
27.5°	1358.5	1342.7	1349.0	1333.9	1332.3
30°	1327.2	1311.4	1317.7	1301.5	1298.9
32.5°	1291.6	1276.8	1282.1	1265.9	1264.3
35°	1236.8	1222.3	1226.0	1209.8	1208.5
37.5°	1174.5	1161.3	1163.4	1145.6	1144.3
40°	1130.3	1117.1	1118.1	1099.2	1097.9
42.5°	1081.7	1068.5	1067.4	1048.5	1047.2
45°	1000.8	987.6	983.3	965.7	963.0
47.5°	908.5	895.3	887.2	872.9	871.0
50°	841.6	828.4	821.4	809.2	805.2
52.5°	769.3	756.1	750.2	739.0	735.1
55°	655.5	644.9	640.7	629.8	627.2
57.5°	547.3	540.2	539.0	528.4	527.4
60°	481.5	477.6	477.5	468.0	468.0
62.5°	425.4	422.5	424.6	418.4	417.3
65°	352.0	349.4	353.4	350.7	350.7
67.5°	294.0	294.0	296.5	295.4	295.4
70°	261.7	261.7	263.0	263.0	263.0
72.5°	232.5	231.5	235.0	234.9	233.9
75°	190.2	190.2	190.2	191.5	191.5
77.5°	148.1	148.4	149.4	149.1	148.1
80°	120.0	121.4	121.4	120.0	120.0
82.5°	92.0	93.3	93.3	93.0	92.0
85°	48.6	51.2	54.0	54.0	54.0
87.5°	14.0	18.2	21.6	21.6	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)