

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: P564835

Luminaire Tested: **SQ4-PW1-0U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564835  
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-075D-830-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

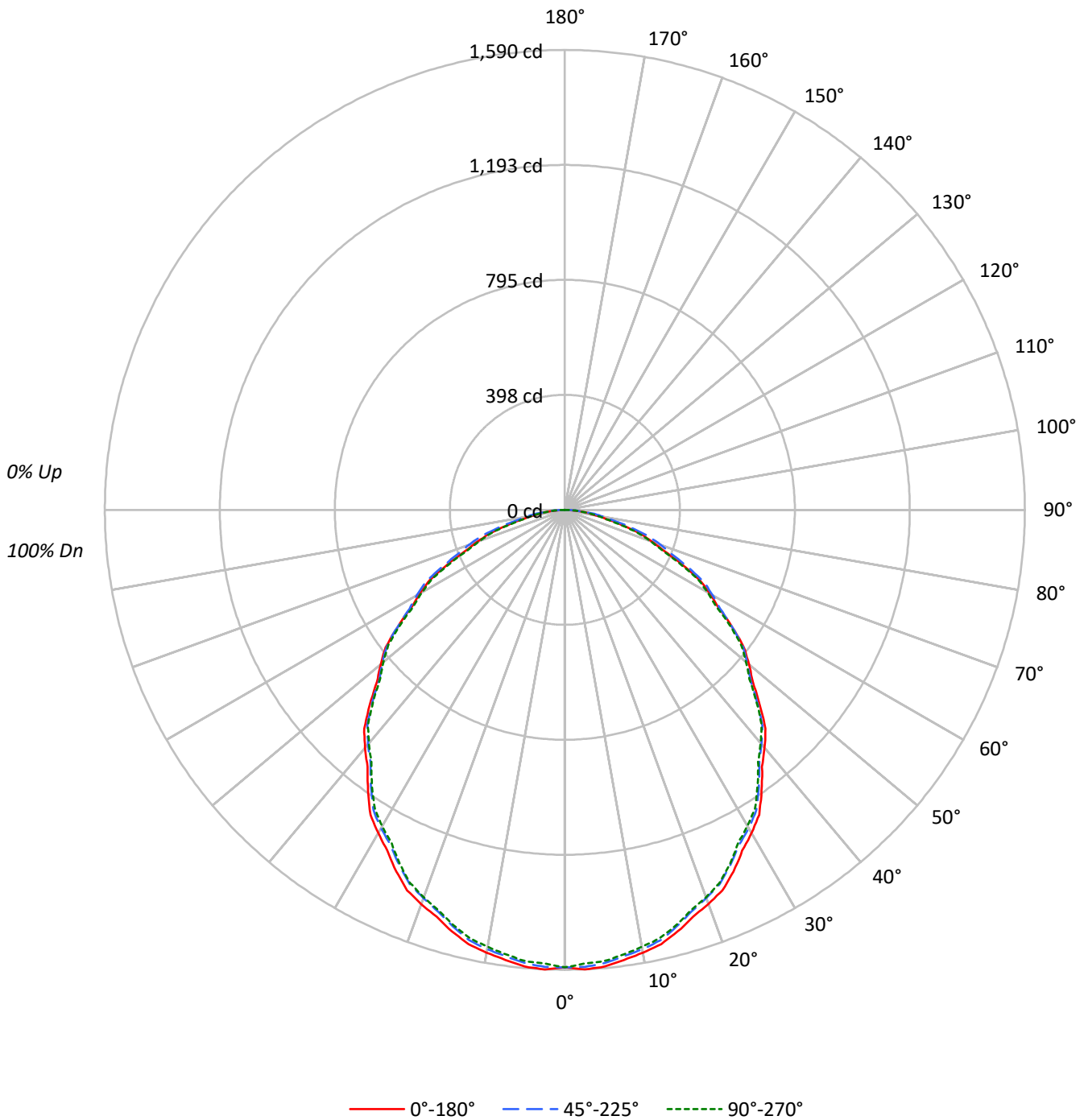
Lumens per Lamp: N/A  
Luminaire Lumens: 4023.4 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 40.4  
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°	9727	9727	9727
5°	9789	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8778	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7455
60°	7113	7251	6993
65°	6509	6833	6347
70°	5739	6289	5588
75°	4900	5630	4767
80°	3801	4739	3850
85°	2456	3642	3246



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	3.7
10°-20°	420.4	10.4
20°-30°	623.6	15.5
30°-40°	729.7	18.1
40°-50°	726.4	18.1
50°-60°	627.3	15.6
60°-70°	451.5	11.2
70°-80°	236.8	5.9
80°-90°	58.7	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°	1192.9	29.6
0°-40°	1922.6	47.8
0°-60°	3276.4	81.4
0°-90°	4023.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4023.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1586	1568	1573	1569	1566	150
15°	1509	1490	1492	1489	1487	425
25°	1379	1356	1354	1346	1350	634
35°	1186	1169	1169	1158	1162	741
45°	953	945	940	938	936	735
55°	706	705	706	697	695	630
65°	447	461	470	451	436	443
75°	206	225	237	221	201	221
85°	35	46	52	49	46	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1581.4	1581.4	1581.4	1581.4	1581.4
2.5°	1590.3	1577.2	1581.4	1577.8	1570.2
5°	1585.5	1567.8	1573.0	1568.8	1566.0
7.5°	1569.4	1553.0	1556.8	1552.3	1550.7
10°	1554.9	1538.5	1542.4	1536.7	1534.0
12.5°	1538.2	1520.7	1524.5	1518.9	1517.3
15°	1508.9	1489.8	1492.2	1489.3	1486.6
17.5°	1474.9	1455.6	1456.0	1451.5	1451.0
20°	1450.4	1430.0	1428.1	1422.6	1425.3
22.5°	1423.6	1402.1	1400.2	1392.5	1396.3
25°	1379.3	1356.2	1354.3	1346.0	1350.1
27.5°	1328.1	1305.2	1305.2	1293.6	1298.0
30°	1290.2	1268.4	1270.7	1256.9	1262.3
32.5°	1250.0	1230.4	1231.7	1217.8	1223.3
35°	1185.7	1169.3	1169.0	1157.9	1162.0
37.5°	1119.9	1105.5	1103.2	1096.8	1097.9
40°	1074.2	1062.0	1057.5	1053.3	1053.3
42.5°	1026.3	1015.1	1010.7	1007.6	1006.5
45°	953.0	944.8	940.5	937.6	936.3
47.5°	880.5	872.9	869.1	867.1	865.8
50°	830.4	824.9	823.4	819.2	817.9
52.5°	780.2	777.0	775.5	770.2	768.8
55°	706.4	705.0	706.4	696.6	695.2
57.5°	629.5	631.7	636.2	623.0	619.7
60°	578.2	583.7	589.4	573.9	568.5
62.5°	525.8	534.5	542.5	524.8	517.2
65°	447.2	460.9	469.5	451.1	436.1
67.5°	371.4	388.3	398.8	378.9	362.0
70°	319.1	338.1	349.7	329.8	310.7
72.5°	273.4	294.6	304.0	285.2	266.1
75°	206.2	225.3	236.9	221.1	200.6
77.5°	146.3	164.3	173.9	160.1	143.2
80°	107.3	126.4	133.8	122.3	108.7
82.5°	76.1	91.9	97.0	90.1	80.8
85°	34.8	45.7	51.6	48.7	46.0
87.5°	8.9	16.5	21.2	21.2	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)