

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: P564866

Luminaire Tested: **SQ4-PW1-0U-100D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564866  
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-100D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

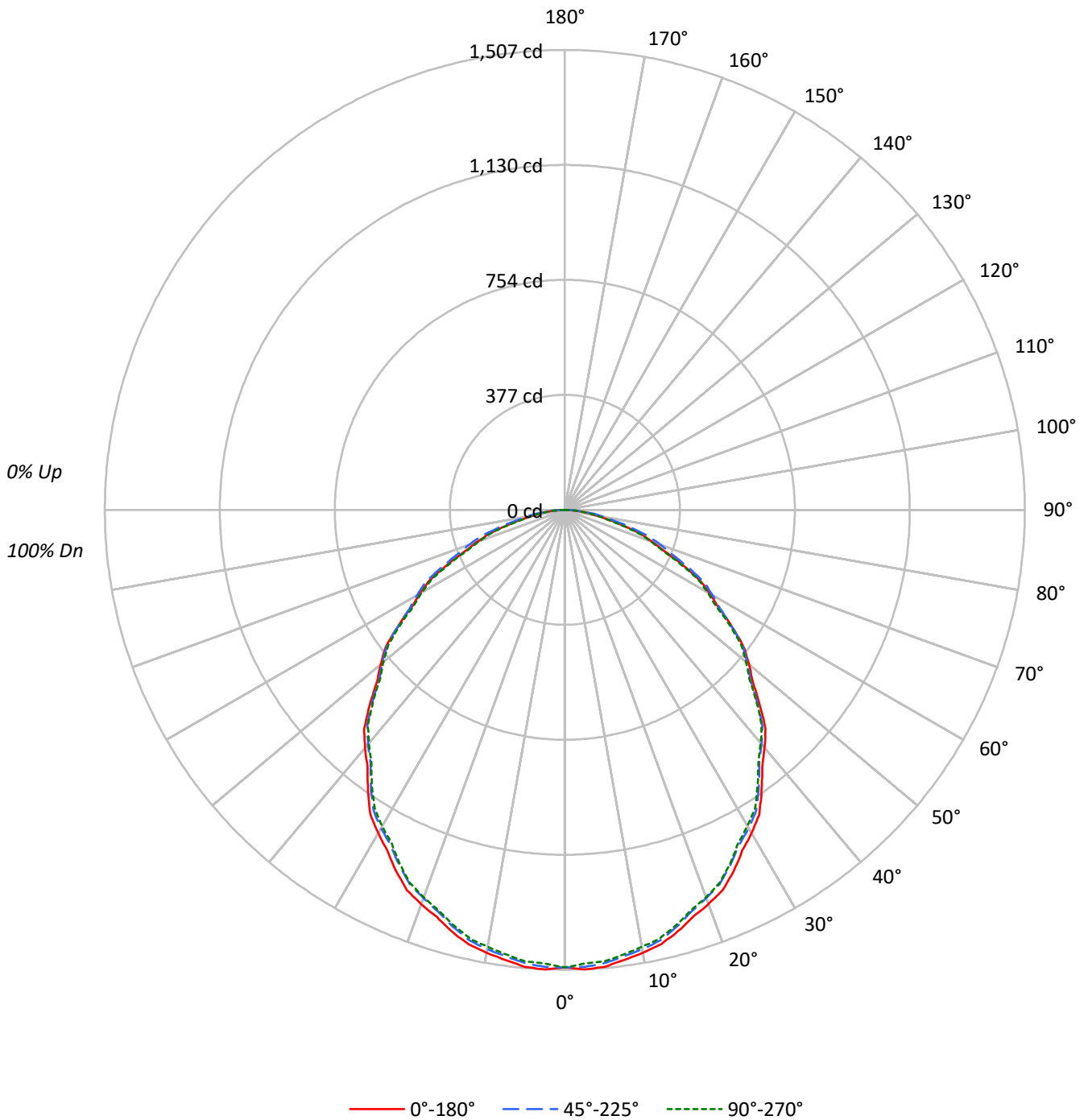
Lumens per Lamp: N/A  
Luminaire Lumens: 3813.8 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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°	13830	13830	13830
5°	13919	13810	13748
10°	13808	13697	13623
15°	13662	13511	13460
20°	13498	13291	13266
25°	13310	13068	13027
30°	13029	12832	12747
35°	12659	12481	12406
40°	12263	12073	12025
45°	11786	11632	11580
50°	11298	11203	11127
55°	10771	10771	10600
60°	10114	10308	9942
65°	9254	9717	9025
70°	8157	8942	7944
75°	6969	8003	6780
80°	5403	6737	5473
85°	3493	5176	4615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.2	3.7
10°-20°	398.5	10.4
20°-30°	591.1	15.5
30°-40°	691.7	18.1
40°-50°	688.6	18.1
50°-60°	594.6	15.6
60°-70°	428.0	11.2
70°-80°	224.5	5.9
80°-90°	55.7	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°	1130.8	29.7
0°-40°	1822.5	47.8
0°-60°	3105.7	81.4
0°-90°	3813.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3813.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1499	1499	1499	1499	1499	
5°	1503	1486	1491	1487	1484	142
15°	1430	1412	1414	1412	1409	403
25°	1308	1286	1284	1276	1280	601
35°	1124	1108	1108	1098	1102	703
45°	903	896	892	889	888	697
55°	670	668	670	660	659	597
65°	424	437	445	428	413	420
75°	196	214	224	210	190	210
85°	33	43	49	46	44	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1499.0	1499.0	1499.0	1499.0	1499.0
2.5°	1507.4	1495.0	1499.0	1495.6	1488.4
5°	1502.9	1486.2	1491.1	1487.0	1484.4
7.5°	1487.6	1472.1	1475.7	1471.5	1469.9
10°	1473.9	1458.4	1462.0	1456.7	1454.1
12.5°	1458.0	1441.5	1445.1	1439.8	1438.2
15°	1430.3	1412.2	1414.5	1411.8	1409.2
17.5°	1398.1	1379.7	1380.1	1375.9	1375.4
20°	1374.8	1355.5	1353.7	1348.5	1351.1
22.5°	1349.5	1329.1	1327.3	1320.0	1323.6
25°	1307.5	1285.5	1283.7	1275.9	1279.7
27.5°	1258.9	1237.2	1237.2	1226.2	1230.3
30°	1223.0	1202.3	1204.5	1191.4	1196.5
32.5°	1184.9	1166.3	1167.5	1154.4	1159.6
35°	1123.9	1108.4	1108.1	1097.6	1101.5
37.5°	1061.6	1047.9	1045.7	1039.7	1040.7
40°	1018.2	1006.6	1002.4	998.4	998.4
42.5°	972.8	962.2	958.0	955.1	954.1
45°	903.3	895.6	891.5	888.8	887.5
47.5°	834.7	827.4	823.8	822.0	820.7
50°	787.1	782.0	780.5	776.5	775.2
52.5°	739.6	736.5	735.1	730.0	728.8
55°	669.6	668.3	669.6	660.3	659.0
57.5°	596.7	598.8	603.0	590.5	587.4
60°	548.1	553.2	558.6	544.0	538.8
62.5°	498.4	506.7	514.3	497.5	490.2
65°	423.9	436.9	445.1	427.6	413.4
67.5°	352.1	368.1	378.0	359.1	343.1
70°	302.4	320.5	331.5	312.6	294.5
72.5°	259.1	279.3	288.2	270.3	252.3
75°	195.5	213.5	224.5	209.5	190.2
77.5°	138.7	155.7	164.8	151.8	135.8
80°	101.7	119.8	126.8	115.9	103.0
82.5°	72.1	87.1	91.9	85.4	76.6
85°	33.0	43.3	48.9	46.2	43.6
87.5°	8.5	15.7	20.1	20.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)