

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: P564848

Luminaire Tested: **SQ4-PW1-0U-075D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564848
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-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

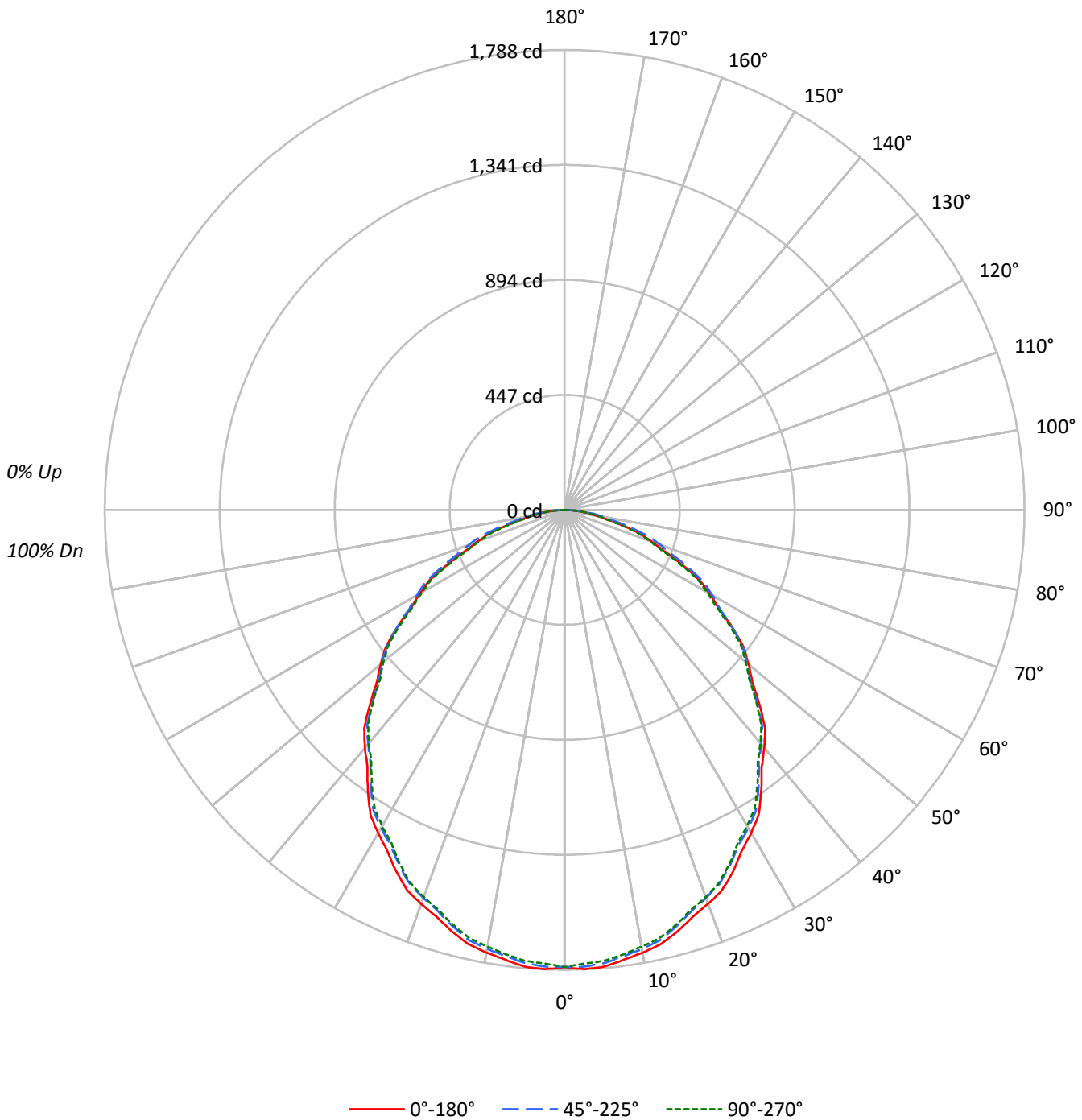
Lumens per Lamp: N/A
Luminaire Lumens: 4522.6 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 54.4
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°	8200	8200	8200
5°	8253	8188	8151
10°	8187	8121	8077
15°	8100	8011	7981
20°	8004	7881	7865
25°	7892	7748	7725
30°	7725	7608	7558
35°	7506	7400	7356
40°	7272	7158	7130
45°	6988	6896	6866
50°	6699	6643	6598
55°	6386	6386	6285
60°	5997	6112	5896
65°	5487	5761	5351
70°	4837	5302	4711
75°	4132	4745	4019
80°	3204	3993	3246
85°	2075	3065	2736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	3.7
10°-20°	472.6	10.4
20°-30°	701.0	15.5
30°-40°	820.2	18.1
40°-50°	816.6	18.1
50°-60°	705.1	15.6
60°-70°	507.6	11.2
70°-80°	266.2	5.9
80°-90°	66.0	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°	1341.0	29.7
0°-40°	2161.2	47.8
0°-60°	3682.9	81.4
0°-90°	4522.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1782	1762	1768	1763	1760	169
15°	1696	1675	1677	1674	1671	478
25°	1550	1524	1522	1513	1518	713
35°	1333	1314	1314	1302	1306	833
45°	1071	1062	1057	1054	1052	827
55°	794	792	794	783	782	708
65°	503	518	528	507	490	498
75°	232	253	266	248	226	248
85°	39	51	58	55	52	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.6	1777.6	1777.6	1777.6	1777.6
2.5°	1787.6	1772.9	1777.6	1773.6	1765.0
5°	1782.3	1762.4	1768.2	1763.4	1760.3
7.5°	1764.1	1745.7	1750.0	1745.0	1743.1
10°	1747.8	1729.4	1733.7	1727.4	1724.3
12.5°	1729.0	1709.4	1713.7	1707.4	1705.5
15°	1696.1	1674.7	1677.3	1674.1	1671.1
17.5°	1657.9	1636.2	1636.6	1631.6	1631.0
20°	1630.4	1607.4	1605.3	1599.1	1602.2
22.5°	1600.3	1576.1	1574.0	1565.3	1569.6
25°	1550.5	1524.5	1522.3	1513.0	1517.6
27.5°	1492.9	1467.1	1467.2	1454.1	1459.0
30°	1450.3	1425.7	1428.3	1412.8	1418.9
32.5°	1405.1	1383.1	1384.5	1369.0	1375.1
35°	1332.8	1314.4	1314.0	1301.6	1306.2
37.5°	1258.9	1242.6	1240.1	1232.9	1234.1
40°	1207.5	1193.7	1188.7	1184.0	1184.0
42.5°	1153.6	1141.1	1136.1	1132.6	1131.4
45°	1071.2	1062.1	1057.1	1054.0	1052.4
47.5°	989.8	981.2	977.0	974.7	973.2
50°	933.4	927.3	925.6	920.9	919.3
52.5°	877.0	873.4	871.7	865.7	864.2
55°	794.0	792.5	794.0	783.0	781.5
57.5°	707.6	710.0	715.1	700.3	696.6
60°	650.0	656.1	662.5	645.1	639.0
62.5°	591.1	600.9	609.9	589.9	581.4
65°	502.7	518.0	527.8	507.0	490.2
67.5°	417.5	436.5	448.2	425.9	406.9
70°	358.6	380.1	393.1	370.7	349.3
72.5°	307.3	331.2	341.7	320.6	299.1
75°	231.8	253.2	266.2	248.5	225.5
77.5°	164.4	184.7	195.5	180.0	161.0
80°	120.6	142.0	150.3	137.5	122.2
82.5°	85.5	103.3	109.0	101.2	90.8
85°	39.2	51.4	57.9	54.7	51.7
87.5°	10.0	18.6	23.8	23.8	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)