

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: P564816

Luminaire Tested: **SQ4-PW1-0U-050D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564816
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

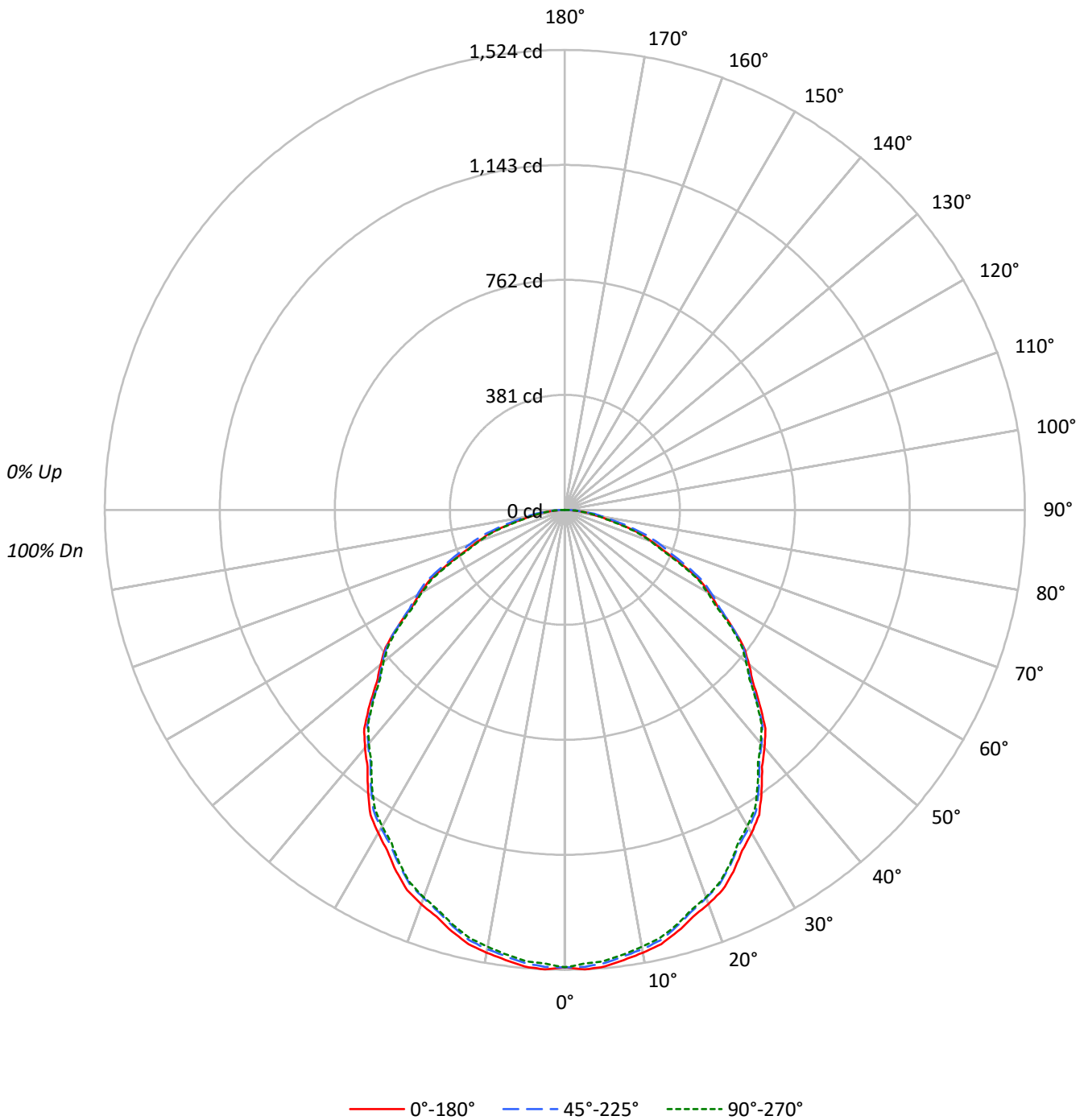
Lumens per Lamp: N/A
Luminaire Lumens: 3856.1 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

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°	6992	6992	6992
5°	7037	6981	6950
10°	6980	6924	6887
15°	6907	6830	6805
20°	6824	6719	6706
25°	6729	6606	6586
30°	6587	6487	6444
35°	6400	6309	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5625
55°	5445	5445	5359
60°	5113	5211	5026
65°	4678	4912	4563
70°	4125	4521	4017
75°	3522	4046	3427
80°	2731	3406	2768
85°	1768	2615	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	3.7
10°-20°	402.9	10.4
20°-30°	597.7	15.5
30°-40°	699.3	18.1
40°-50°	696.2	18.1
50°-60°	601.2	15.6
60°-70°	432.8	11.2
70°-80°	226.9	5.9
80°-90°	56.3	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°	1143.3	29.6
0°-40°	1842.7	47.8
0°-60°	3140.1	81.4
0°-90°	3856.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3856.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1516	1516	1516	1516	1516	
5°	1520	1503	1508	1504	1501	144
15°	1446	1428	1430	1427	1425	408
25°	1322	1300	1298	1290	1294	608
35°	1136	1121	1120	1110	1114	710
45°	913	906	901	899	897	705
55°	677	676	677	668	666	604
65°	429	442	450	432	418	425
75°	198	216	227	212	192	212
85°	33	44	49	47	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1524.1	1511.6	1515.6	1512.2	1504.9
5°	1519.6	1502.6	1507.6	1503.5	1500.9
7.5°	1504.1	1488.5	1492.1	1487.8	1486.2
10°	1490.2	1474.6	1478.2	1472.8	1470.2
12.5°	1474.2	1457.5	1461.1	1455.7	1454.2
15°	1446.2	1427.9	1430.1	1427.4	1424.8
17.5°	1413.6	1395.0	1395.4	1391.1	1390.6
20°	1390.1	1370.5	1368.7	1363.4	1366.0
22.5°	1364.4	1343.8	1342.0	1334.6	1338.3
25°	1322.0	1299.8	1297.9	1290.0	1293.9
27.5°	1272.8	1250.9	1250.9	1239.8	1244.0
30°	1236.5	1215.6	1217.8	1204.6	1209.8
32.5°	1198.1	1179.3	1180.4	1167.2	1172.4
35°	1136.4	1120.7	1120.3	1109.8	1113.7
37.5°	1073.3	1059.5	1057.3	1051.2	1052.2
40°	1029.5	1017.8	1013.5	1009.5	1009.5
42.5°	983.6	972.9	968.7	965.7	964.6
45°	913.4	905.5	901.3	898.6	897.3
47.5°	843.9	836.6	833.0	831.1	829.8
50°	795.9	790.6	789.2	785.1	783.8
52.5°	747.8	744.7	743.2	738.1	736.8
55°	677.0	675.7	677.0	667.6	666.3
57.5°	603.3	605.4	609.7	597.1	594.0
60°	554.2	559.4	564.8	550.0	544.8
62.5°	504.0	512.3	520.0	503.0	495.7
65°	428.6	441.7	450.0	432.3	418.0
67.5°	356.0	372.2	382.2	363.1	346.9
70°	305.8	324.1	335.2	316.1	297.8
72.5°	262.0	282.4	291.4	273.3	255.0
75°	197.6	215.9	227.0	211.9	192.3
77.5°	140.2	157.4	166.6	153.5	137.3
80°	102.8	121.1	128.2	117.2	104.2
82.5°	72.9	88.1	92.9	86.3	77.4
85°	33.4	43.8	49.4	46.7	44.1
87.5°	8.5	15.9	20.3	20.3	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)