

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: P564894

Luminaire Tested: **SQ4-PW1-0U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564894
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-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

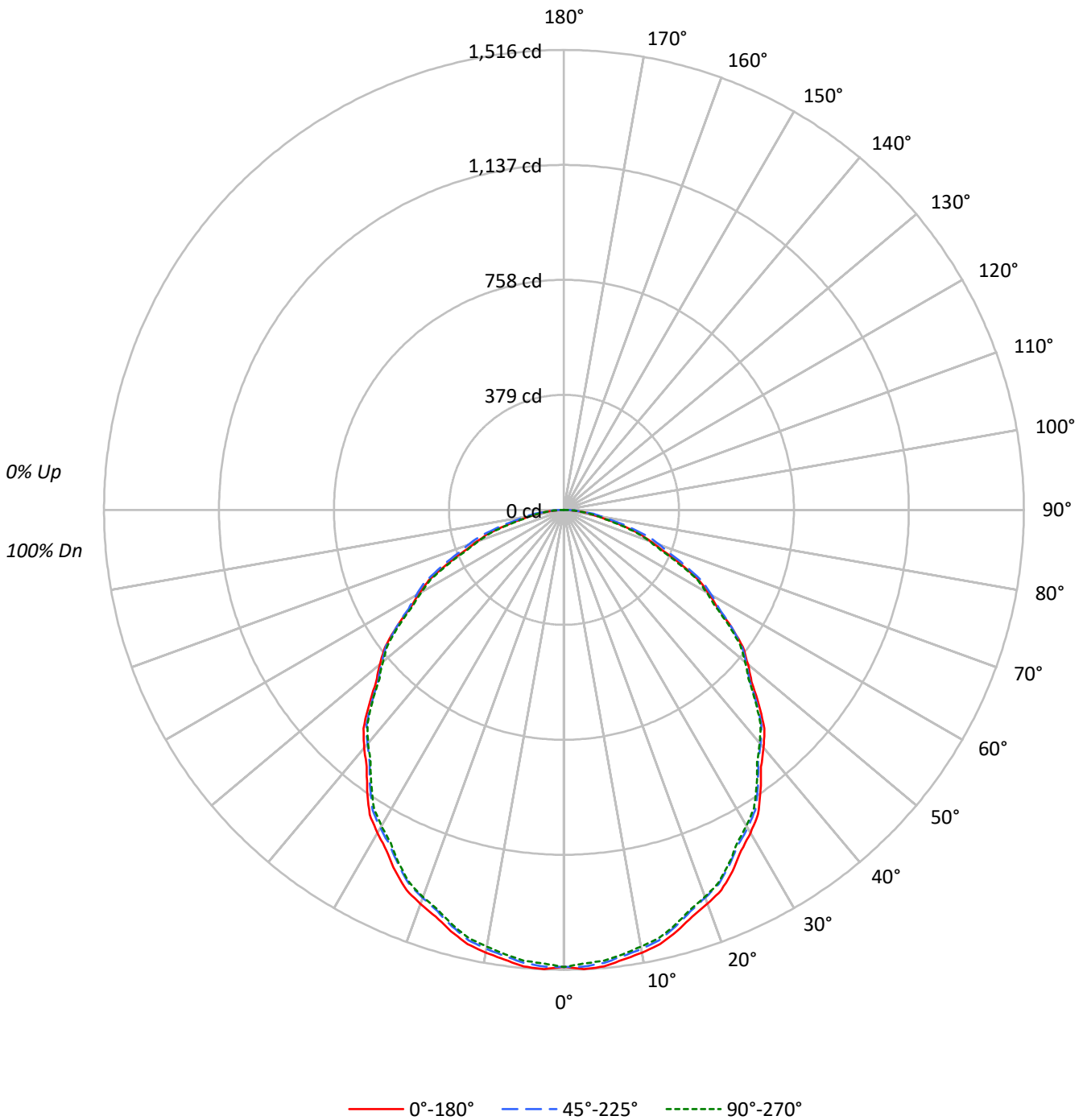
Lumens per Lamp: N/A
Luminaire Lumens: 3834.3 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13771	13696
15°	13735	13583	13532
20°	13571	13363	13336
25°	13382	13138	13098
30°	13098	12900	12816
35°	12726	12547	12473
40°	12329	12138	12090
45°	11850	11695	11643
50°	11359	11263	11187
55°	10829	10829	10658
60°	10167	10365	9996
65°	9304	9769	9073
70°	8203	8991	7987
75°	7005	8046	6816
80°	5430	6774	5504
85°	3515	5198	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.7
10°-20°	400.7	10.4
20°-30°	594.3	15.5
30°-40°	695.4	18.1
40°-50°	692.3	18.1
50°-60°	597.8	15.6
60°-70°	430.3	11.2
70°-80°	225.7	5.9
80°-90°	55.9	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°	1136.9	29.6
0°-40°	1832.3	47.8
0°-60°	3122.4	81.4
0°-90°	3834.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1511	1494	1499	1495	1492	143
15°	1438	1420	1422	1419	1417	405
25°	1314	1292	1291	1283	1287	604
35°	1130	1114	1114	1104	1107	706
45°	908	900	896	894	892	701
55°	673	672	673	664	663	601
65°	426	439	448	430	416	422
75°	196	215	226	211	191	211
85°	33	44	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°	1507.0	1507.0	1507.0	1507.0	1507.0
2.5°	1515.5	1503.1	1507.0	1503.7	1496.4
5°	1511.0	1494.1	1499.1	1495.0	1492.4
7.5°	1495.6	1480.0	1483.7	1479.4	1477.8
10°	1481.8	1466.2	1469.9	1464.5	1461.9
12.5°	1465.9	1449.3	1452.9	1447.5	1446.0
15°	1438.0	1419.8	1422.1	1419.3	1416.7
17.5°	1405.6	1387.2	1387.5	1383.3	1382.8
20°	1382.2	1362.7	1361.0	1355.7	1358.3
22.5°	1356.7	1336.2	1334.4	1327.1	1330.7
25°	1314.5	1292.4	1290.6	1282.7	1286.6
27.5°	1265.6	1243.8	1243.9	1232.8	1237.0
30°	1229.5	1208.8	1210.9	1197.8	1203.0
32.5°	1191.3	1172.6	1173.8	1160.6	1165.8
35°	1129.9	1114.4	1114.0	1103.5	1107.4
37.5°	1067.3	1053.5	1051.3	1045.3	1046.3
40°	1023.7	1012.0	1007.8	1003.8	1003.8
42.5°	978.0	967.4	963.2	960.2	959.2
45°	908.2	900.4	896.3	893.6	892.3
47.5°	839.2	831.9	828.3	826.4	825.1
50°	791.4	786.2	784.7	780.7	779.4
52.5°	743.6	740.4	739.0	734.0	732.7
55°	673.2	671.9	673.2	663.9	662.6
57.5°	599.9	602.0	606.3	593.7	590.6
60°	551.0	556.2	561.7	546.9	541.7
62.5°	501.1	509.4	517.0	500.1	492.9
65°	426.2	439.2	447.5	429.9	415.6
67.5°	354.0	370.1	380.0	361.1	345.0
70°	304.1	322.2	333.3	314.3	296.1
72.5°	260.5	280.8	289.7	271.8	253.6
75°	196.5	214.7	225.7	210.7	191.2
77.5°	139.4	156.6	165.7	152.6	136.5
80°	102.2	120.4	127.5	116.5	103.6
82.5°	72.5	87.6	92.4	85.8	77.0
85°	33.2	43.6	49.1	46.4	43.8
87.5°	8.5	15.8	20.2	20.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)