

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: P564226

Luminaire Tested: **SQ4-PR1-0U-125D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564226
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

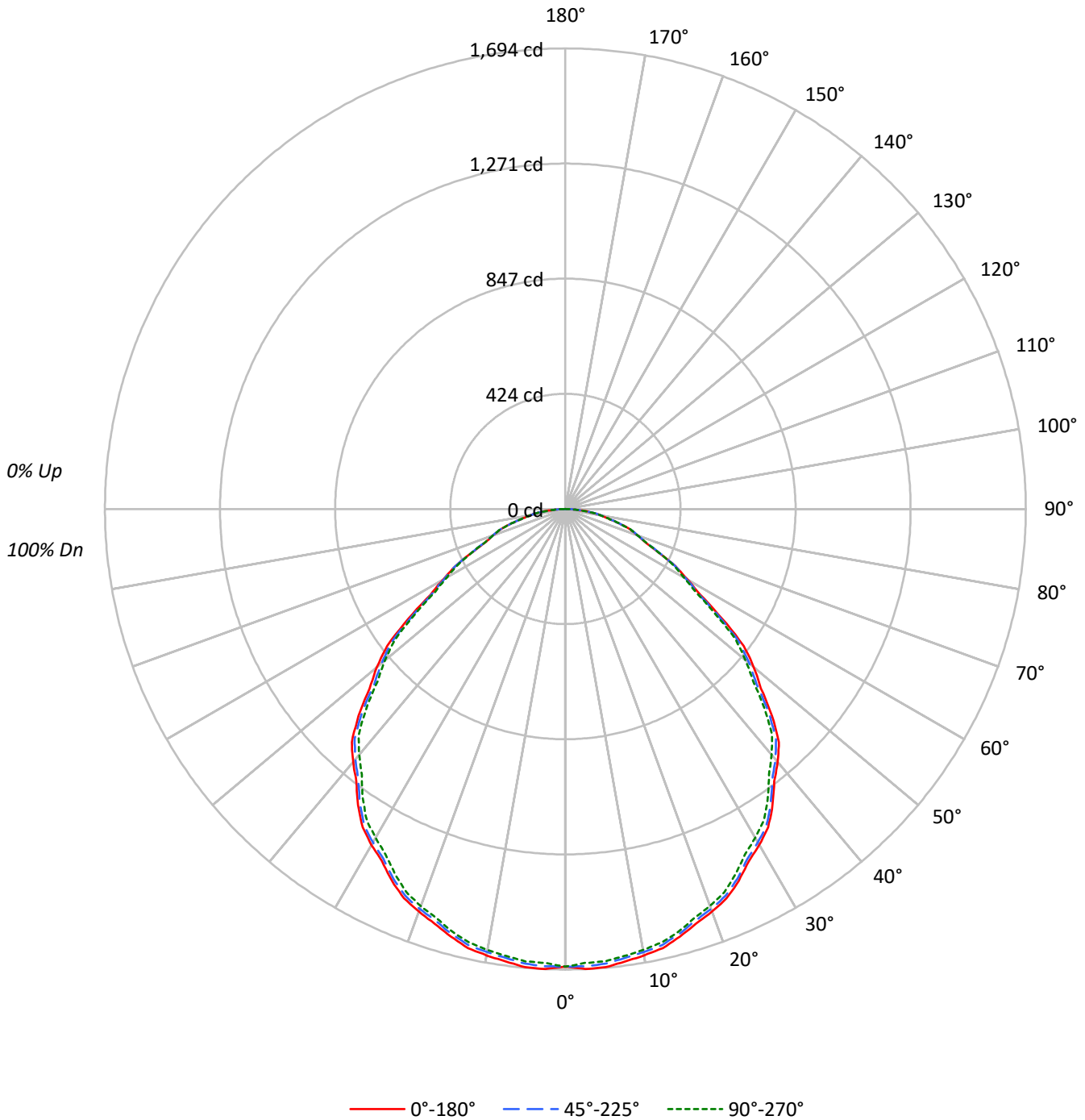
Lumens per Lamp: N/A
Luminaire Lumens: 4207.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15669	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15365	15261	15084
30°	15198	15091	14874
35°	14974	14844	14631
40°	14632	14476	14213
45°	14037	13790	13507
50°	12986	12673	12423
55°	11334	11078	10845
60°	9551	9470	9283
65°	8261	8294	8230
70°	7588	7626	7626
75°	7286	7286	7340
80°	6854	6934	6854
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.8
10°-20°	455.4	10.8
20°-30°	686.9	16.3
30°-40°	818.5	19.5
40°-50°	806.9	19.2
50°-60°	616.7	14.7
60°-70°	381.6	9.1
70°-80°	216.8	5.2
80°-90°	65.9	1.6
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°	1301.5	30.9
0°-40°	2119.9	50.4
0°-60°	3543.6	84.2
0°-90°	4207.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1692	1674	1679	1673	1670	161
15°	1628	1611	1618	1612	1609	459
25°	1509	1491	1499	1483	1482	695
35°	1330	1314	1318	1300	1299	830
45°	1076	1062	1057	1038	1035	824
55°	705	693	689	677	674	631
65°	378	376	380	377	377	383
75°	204	204	204	206	206	216
85°	52	55	58	58	58	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1693.7	1678.9	1683.2	1679.6	1671.6
5°	1691.9	1673.5	1678.9	1673.0	1670.2
7.5°	1678.9	1660.7	1666.1	1660.3	1658.6
10°	1667.3	1650.3	1655.7	1649.8	1647.0
12.5°	1654.5	1636.4	1642.9	1635.9	1633.1
15°	1628.1	1611.1	1618.0	1612.1	1609.3
17.5°	1599.1	1581.0	1587.8	1581.1	1577.4
20°	1575.9	1558.9	1565.8	1555.6	1554.2
22.5°	1550.4	1533.4	1540.3	1526.6	1526.4
25°	1509.3	1490.8	1499.1	1483.1	1481.7
27.5°	1460.3	1443.2	1450.1	1433.8	1432.1
30°	1426.6	1409.6	1416.5	1399.0	1396.2
32.5°	1388.3	1372.5	1378.2	1360.8	1359.1
35°	1329.5	1313.9	1317.9	1300.4	1299.0
37.5°	1262.5	1248.3	1250.6	1231.4	1230.0
40°	1214.9	1200.8	1201.9	1181.6	1180.1
42.5°	1162.7	1148.6	1147.4	1127.1	1125.6
45°	1075.8	1061.6	1056.9	1038.0	1035.2
47.5°	976.6	962.4	953.7	938.3	936.3
50°	904.7	890.5	882.9	869.8	865.5
52.5°	827.0	812.8	806.4	794.4	790.1
55°	704.6	693.3	688.7	677.0	674.2
57.5°	588.3	580.7	579.3	568.0	566.9
60°	517.6	513.3	513.2	503.1	503.1
62.5°	457.3	454.2	456.4	449.7	448.6
65°	378.4	375.6	379.9	377.0	377.0
67.5°	316.1	316.1	318.7	317.5	317.5
70°	281.3	281.3	282.7	282.7	282.7
72.5°	249.9	248.8	252.6	252.5	251.4
75°	204.4	204.4	204.4	205.9	205.9
77.5°	159.2	159.5	160.6	160.3	159.2
80°	129.0	130.5	130.5	129.0	129.0
82.5°	98.9	100.3	100.3	100.0	98.9
85°	52.2	55.0	58.0	58.0	58.0
87.5°	15.1	19.6	23.2	23.2	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)