

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: P520156

Luminaire Tested: **SQ4-F-0U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520156
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

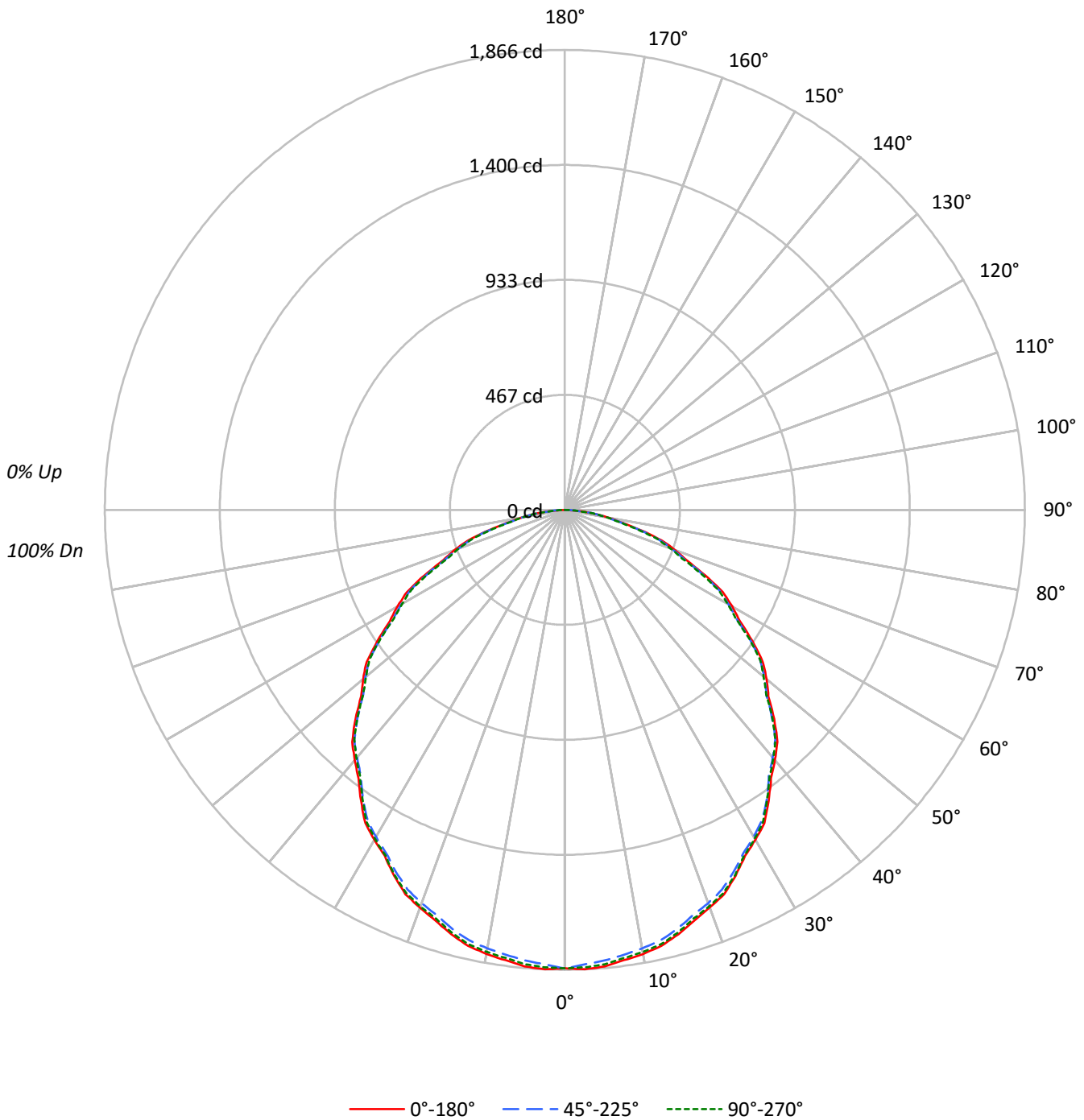
Lumens per Lamp: N/A
Luminaire Lumens: 5074.9 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17162	17162	17162
5°	17218	16999	17142
10°	17139	16928	17062
15°	17024	16819	16955
20°	16866	16675	16805
25°	16674	16497	16633
30°	16468	16326	16413
35°	16235	16096	16109
40°	15967	15794	15843
45°	15668	15494	15522
50°	15325	15150	15104
55°	14935	14721	14689
60°	14450	14129	14055
65°	13701	13409	13232
70°	12757	12425	12263
75°	11347	11097	10765
80°	9245	8979	8921
85°	5526	6288	6288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	3.5
10°-20°	499.8	9.8
20°-30°	751.0	14.8
30°-40°	896.0	17.7
40°-50°	918.5	18.1
50°-60°	818.6	16.1
60°-70°	609.4	12.0
70°-80°	330.2	6.5
80°-90°	75.8	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°	1426.3	28.1
0°-40°	2322.4	45.8
0°-60°	4059.5	80.0
0°-90°	5074.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5074.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1859	1856	1836	1852	1851	176
15°	1782	1778	1761	1776	1775	502
25°	1638	1635	1620	1630	1634	754
35°	1441	1440	1429	1429	1430	901
45°	1201	1198	1188	1186	1190	925
55°	928	926	915	908	913	829
65°	628	624	614	610	606	621
75°	318	318	311	305	302	338
85°	52	59	59	60	59	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.1	1860.1	1860.1	1860.1	1860.1
2.5°	1865.8	1862.6	1846.1	1860.0	1857.7
5°	1859.1	1856.1	1835.5	1851.9	1850.9
7.5°	1843.3	1839.5	1820.8	1836.1	1834.3
10°	1829.4	1826.4	1806.9	1822.2	1821.2
12.5°	1812.2	1809.1	1789.7	1805.0	1804.8
15°	1782.3	1778.3	1760.8	1776.1	1775.1
17.5°	1746.5	1741.8	1724.6	1736.7	1738.7
20°	1717.8	1714.8	1698.4	1709.6	1711.6
22.5°	1688.3	1684.5	1667.2	1680.2	1682.1
25°	1637.9	1634.9	1620.5	1629.8	1633.9
27.5°	1582.7	1582.7	1569.3	1575.9	1578.4
30°	1545.8	1545.8	1532.5	1536.7	1540.6
32.5°	1506.5	1503.2	1490.8	1494.1	1498.1
35°	1441.4	1440.4	1429.1	1429.2	1430.2
37.5°	1374.0	1371.2	1358.9	1359.8	1364.6
40°	1325.7	1323.8	1311.4	1311.5	1315.4
42.5°	1276.5	1274.6	1263.9	1262.2	1263.9
45°	1200.8	1197.8	1187.5	1185.5	1189.6
47.5°	1120.1	1121.0	1108.7	1105.8	1108.1
50°	1067.7	1067.7	1055.5	1049.4	1052.3
52.5°	1012.9	1011.3	998.9	992.1	999.1
55°	928.5	925.5	915.2	908.1	913.2
57.5°	842.1	837.5	827.1	819.4	822.3
60°	783.1	776.2	765.7	759.6	761.7
62.5°	721.7	717.9	706.7	697.5	701.9
65°	627.6	623.5	614.2	610.0	606.1
67.5°	535.2	532.6	522.1	517.7	515.2
70°	472.9	467.9	460.6	455.6	454.6
72.5°	412.4	406.5	399.2	394.9	392.3
75°	318.3	318.3	311.3	305.0	302.0
77.5°	228.9	229.7	223.8	221.7	220.3
80°	174.0	174.0	169.0	166.9	167.9
82.5°	121.6	124.1	122.2	119.3	118.0
85°	52.2	59.2	59.4	60.4	59.4
87.5°	9.0	14.6	15.6	13.9	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)