

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: P520348

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520348
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

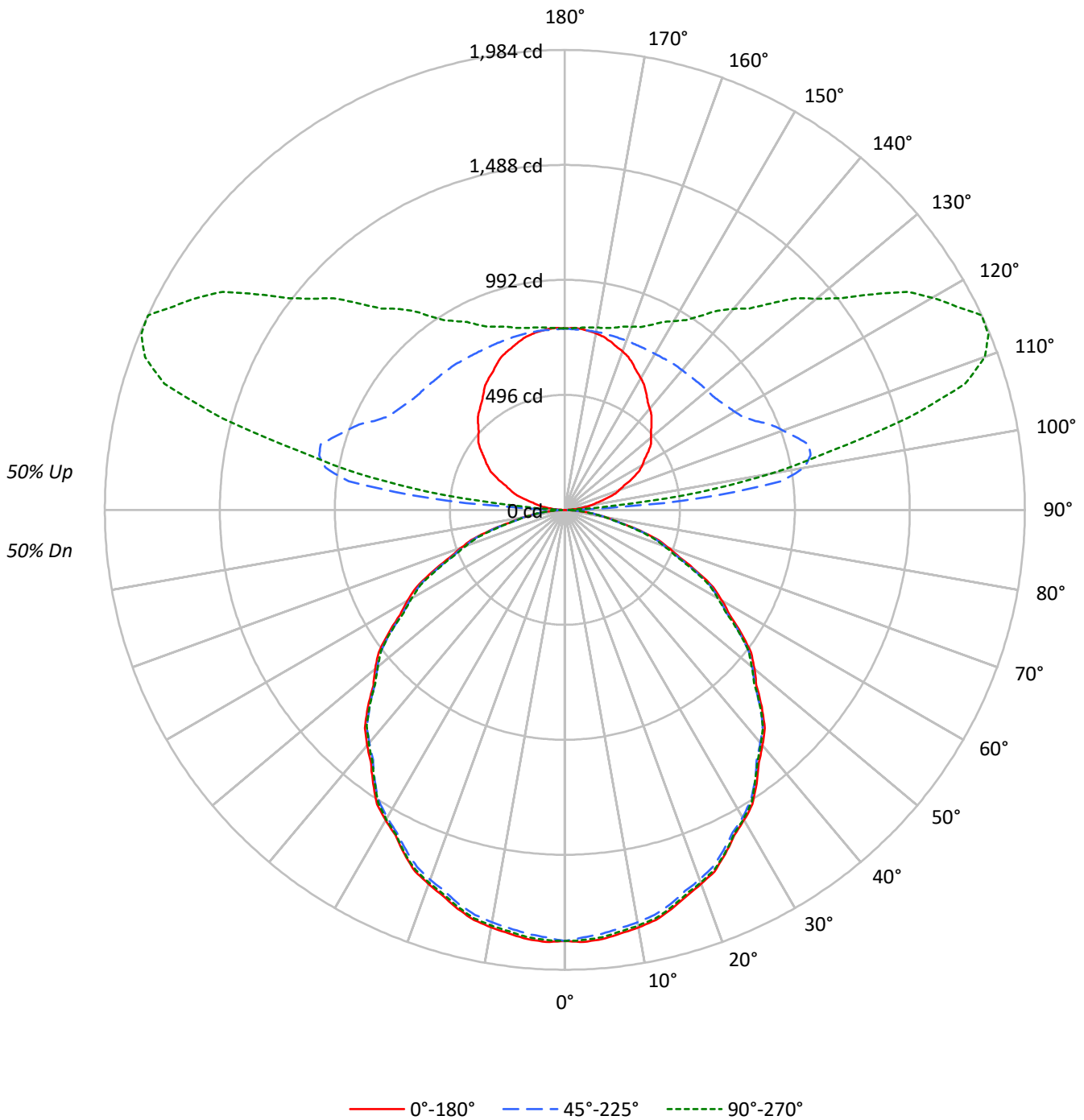
Lumens per Lamp: N/A
Luminaire Lumens: 10126.3 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

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	1.7
10°-20°	499.8	4.9
20°-30°	751.0	7.4
30°-40°	896.0	8.8
40°-50°	918.5	9.1
50°-60°	818.6	8.1
60°-70°	609.4	6.0
70°-80°	330.2	3.3
80°-90°	77.6	0.8
90°-100°	365.9	3.6
100°-110°	985.7	9.7
110°-120°	1034.5	10.2
120°-130°	839.4	8.3
130°-140°	658.4	6.5
140°-150°	505.4	5.0
150°-160°	363.4	3.6
160°-170°	222.0	2.2
170°-180°	74.9	0.7
0°-30°	1426.3	14.1
0°-40°	2322.4	22.9
0°-60°	4059.5	40.1
0°-90°	5076.7	50.1
90°-120°	2386.1	23.6
90°-150°	4389.3	43.3
90°-180°	5050.0	49.9
0°-180°	10126.3	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	72
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1259	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	



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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°	9.4	15.8	18.0	16.5	14.9
90°	2.0	5.9	11.9	12.9	12.9
92.5°	24.3	85.8	169.8	81.7	56.8
95°	55.8	199.0	599.8	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.7
102.5°	139.3	255.5	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.6	1784.9	1810.7
110°	250.1	335.9	1001.4	1832.6	1927.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.1	1977.4
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.3	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1749.9
125°	439.4	504.7	815.1	1377.7	1621.2
127.5°	468.7	533.0	805.2	1280.6	1498.0
130°	486.3	550.6	801.1	1225.0	1415.9
132.5°	503.8	567.4	797.2	1176.0	1351.4
135°	529.1	590.5	792.1	1111.4	1258.6
137.5°	553.3	612.1	789.6	1056.6	1177.4
140°	569.9	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.9	659.5	782.2	950.2	1020.4
147.5°	638.1	679.7	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	702.9	776.4	876.1	913.3
155°	694.5	719.8	775.3	852.6	879.9
157.5°	714.7	734.3	775.5	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.1
165°	753.4	762.0	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.8
170°	773.3	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.3	782.3	779.2	790.2	788.2
177.5°	785.4	783.8	779.8	786.1	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)