

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: P520109

Luminaire Tested: **SQ4-F-0U-075D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520109
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

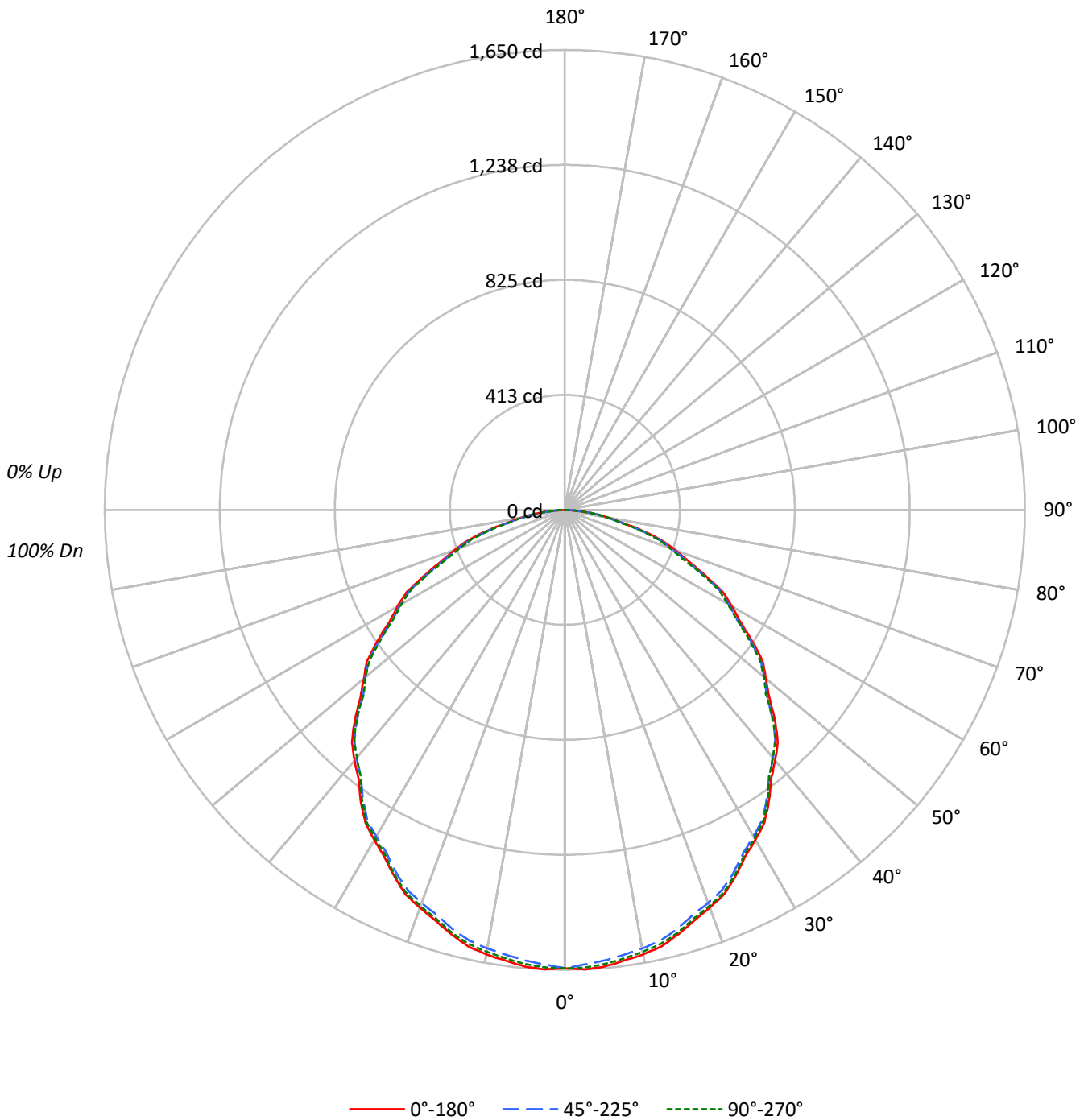
Lumens per Lamp: N/A
Luminaire Lumens: 4489.4 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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



TEST NUMBER: P520109
CATALOG NUMBER: SQ4-F-0U-075D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P520109

CATALOG NUMBER: SQ4-F-0U-075D-840-1D-UNV-STD-W-6

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	61	59
4	83	71	62	55	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	46	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°	10116	10116	10116
5°	10154	10025	10099
10°	10113	9982	10057
15°	10036	9912	9997
20°	9945	9827	9905
25°	9835	9734	9805
30°	9710	9604	9658
35°	9583	9482	9527
40°	9422	9326	9313
45°	9260	9143	9169
50°	9002	8931	8931
55°	8793	8682	8601
60°	8510	8364	8290
65°	8050	7898	7789
70°	7562	7375	7185
75°	6804	6554	6412
80°	5441	5334	5281
85°	3268	3684	3783



TEST NUMBER: P520109

CATALOG NUMBER: SQ4-F-0U-075D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.5
10°-20°	441.9	9.8
20°-30°	663.9	14.8
30°-40°	792.2	17.6
40°-50°	812.4	18.1
50°-60°	723.9	16.1
60°-70°	539.8	12.0
70°-80°	292.7	6.5
80°-90°	67.3	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°	1261.0	28.1
0°-40°	2053.2	45.7
0°-60°	3589.6	80.0
0°-90°	4489.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4489.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1645	1642	1624	1637	1636	156
15°	1576	1573	1557	1568	1570	444
25°	1449	1448	1434	1442	1445	667
35°	1276	1273	1263	1263	1269	797
45°	1065	1060	1051	1051	1054	819
55°	820	818	810	802	802	732
65°	553	553	543	537	535	551
75°	286	280	276	271	270	301
85°	46	49	52	52	54	65
90°	0	0	0	0	0	

TEST NUMBER: P520109

CATALOG NUMBER: SQ4-F-0U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.6	1644.6	1644.6	1644.6	1644.6
2.5°	1650.5	1647.0	1632.6	1644.5	1643.3
5°	1644.6	1641.6	1623.6	1637.0	1635.6
7.5°	1631.1	1627.9	1610.2	1623.6	1623.3
10°	1619.2	1614.7	1598.3	1611.7	1610.2
12.5°	1603.6	1599.3	1582.8	1596.1	1594.7
15°	1576.0	1573.0	1556.6	1568.5	1570.0
17.5°	1544.3	1538.8	1524.0	1535.7	1537.2
20°	1519.3	1514.9	1501.4	1511.8	1513.3
22.5°	1493.0	1488.7	1475.1	1485.6	1487.1
25°	1449.2	1447.8	1434.3	1441.8	1444.7
27.5°	1401.8	1397.7	1386.8	1392.6	1395.5
30°	1367.2	1364.3	1352.3	1356.8	1359.8
32.5°	1331.4	1329.7	1318.9	1321.1	1325.1
35°	1276.2	1273.4	1262.8	1262.9	1268.8
37.5°	1215.1	1211.9	1203.2	1201.7	1204.1
40°	1173.4	1169.0	1161.5	1159.9	1159.9
42.5°	1130.4	1127.2	1117.3	1114.7	1118.2
45°	1064.6	1060.1	1051.1	1051.2	1054.1
47.5°	993.3	991.5	981.0	976.3	977.5
50°	940.8	943.7	933.3	927.5	933.3
52.5°	895.5	893.7	884.5	878.5	880.8
55°	820.0	818.5	809.6	802.1	802.1
57.5°	744.2	740.5	731.2	725.5	730.0
60°	691.8	690.3	679.9	669.6	673.9
62.5°	639.3	636.7	626.2	619.4	622.6
65°	553.1	553.1	542.7	536.7	535.2
67.5°	477.7	470.7	464.9	457.7	455.6
70°	420.5	414.6	410.1	404.0	399.5
72.5°	364.4	360.9	354.0	348.0	347.1
75°	286.3	280.5	275.8	271.3	269.8
77.5°	203.7	202.5	198.3	195.9	196.8
80°	153.6	153.6	150.6	150.6	149.1
82.5°	108.2	109.4	108.8	106.5	106.2
85°	46.3	49.1	52.2	52.3	53.6
87.5°	8.4	14.2	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)