

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: P563499

Luminaire Tested: **SQ4-PP3-0U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563499
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

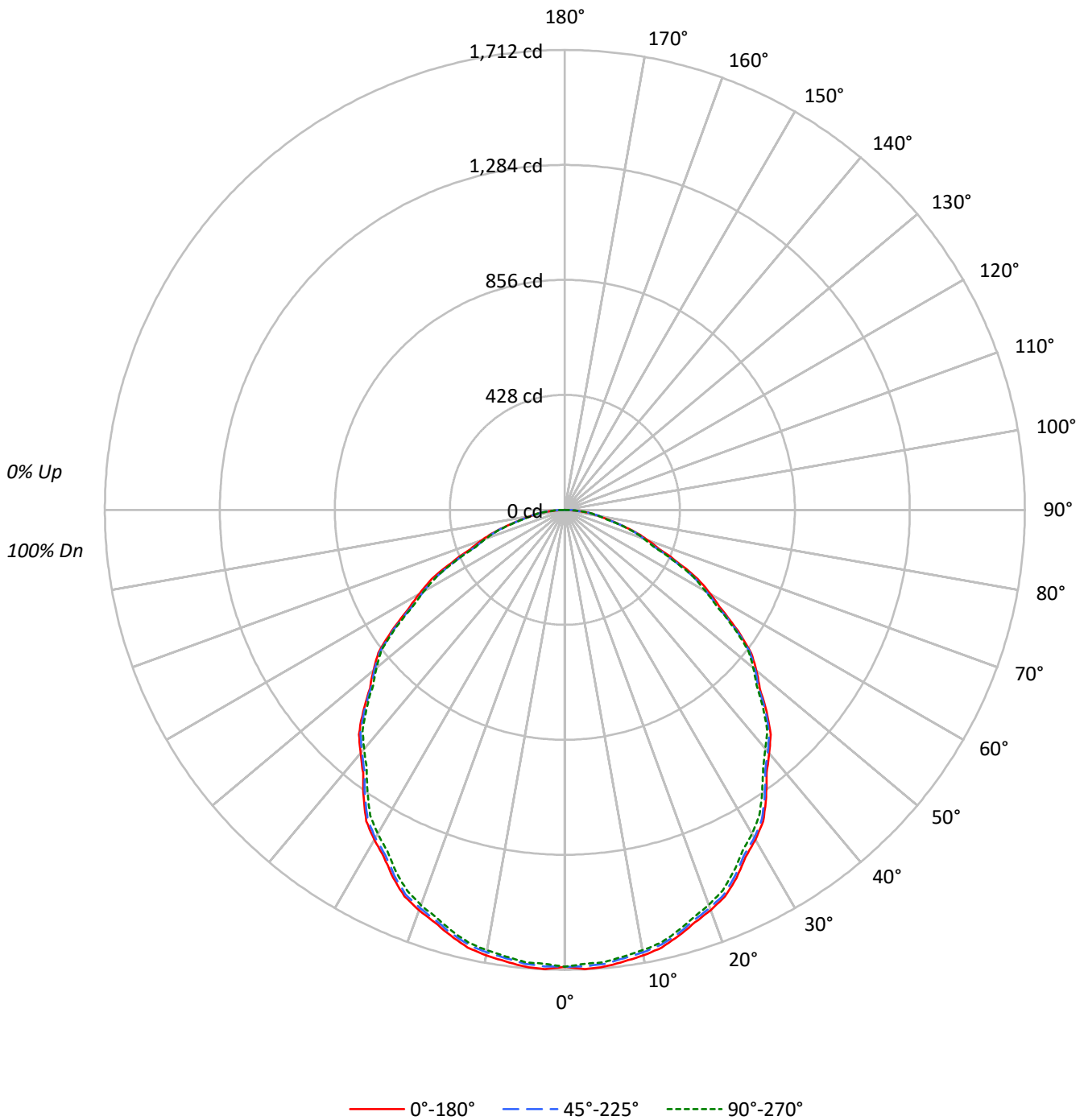
Lumens per Lamp: N/A
Luminaire Lumens: 4353.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: P563499
CATALOG NUMBER: SQ4-PP3-0U-075D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563499

CATALOG NUMBER: SQ4-PP3-0U-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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10436
10°	10520	10445	10399
15°	10450	10393	10337
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9737	9614
40°	9491	9431	9324
45°	9232	9167	9076
50°	8900	8844	8758
55°	8439	8328	8264
60°	7684	7463	7426
65°	6769	6487	6465
70°	5843	5602	5602
75°	5031	4960	4888
80°	4435	4488	4382
85°	3472	3790	3790



TEST NUMBER: P563499

CATALOG NUMBER: SQ4-PP3-0U-075D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	3.7
10°-20°	459.2	10.5
20°-30°	687.8	15.8
30°-40°	806.8	18.5
40°-50°	809.3	18.6
50°-60°	690.4	15.9
60°-70°	450.3	10.3
70°-80°	225.9	5.2
80°-90°	62.5	1.4
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°	1307.9	30.0
0°-40°	2114.6	48.6
0°-60°	3614.4	83.0
0°-90°	4353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1707	1691	1696	1690	1690	162
15°	1641	1625	1632	1626	1623	463
25°	1512	1494	1501	1488	1486	695
35°	1306	1293	1297	1282	1280	816
45°	1061	1054	1054	1043	1043	817
55°	787	784	777	772	771	699
65°	465	456	446	443	444	464
75°	212	212	209	207	206	230
85°	49	54	54	54	54	60
90°	0	0	0	0	0	

TEST NUMBER: P563499

CATALOG NUMBER: SQ4-PP3-0U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.8	1700.8	1700.8	1700.8	1700.8
2.5°	1711.5	1697.5	1700.8	1698.2	1691.2
5°	1706.7	1690.7	1696.3	1690.3	1690.3
7.5°	1695.1	1677.6	1683.2	1677.2	1676.9
10°	1684.4	1666.9	1672.4	1666.5	1665.0
12.5°	1668.9	1651.4	1658.1	1651.0	1650.7
15°	1641.1	1625.1	1632.2	1626.2	1623.3
17.5°	1609.8	1592.4	1600.9	1592.5	1591.4
20°	1586.0	1568.5	1577.0	1565.1	1565.1
22.5°	1557.4	1539.9	1549.6	1534.1	1534.1
25°	1511.5	1494.0	1501.0	1487.6	1486.1
27.5°	1456.9	1439.7	1447.1	1431.9	1431.6
30°	1417.6	1401.5	1410.1	1393.7	1392.2
32.5°	1374.6	1359.8	1366.0	1349.6	1348.1
35°	1305.8	1292.6	1296.8	1281.9	1280.4
37.5°	1233.3	1219.9	1224.7	1211.8	1211.3
40°	1182.0	1173.3	1174.6	1164.1	1161.2
42.5°	1134.3	1124.4	1125.7	1115.2	1114.7
45°	1061.3	1054.0	1053.8	1043.4	1043.4
47.5°	983.8	978.3	976.6	968.0	967.7
50°	930.1	925.8	924.2	916.7	915.2
52.5°	874.1	872.0	866.9	860.7	860.4
55°	787.0	784.1	776.6	772.1	770.6
57.5°	692.5	686.7	678.2	671.7	672.9
60°	624.6	618.7	606.7	603.7	603.7
62.5°	559.0	552.0	539.9	535.8	538.1
65°	465.1	456.3	445.7	442.7	444.2
67.5°	379.8	371.9	360.4	360.4	359.2
70°	324.9	320.6	311.5	311.5	311.5
72.5°	276.1	274.0	267.4	267.4	266.2
75°	211.7	211.7	208.7	207.2	205.7
77.5°	158.6	159.2	157.7	156.2	153.5
80°	125.2	128.1	126.7	125.2	123.7
82.5°	94.2	97.1	96.9	94.2	93.9
85°	49.2	53.6	53.7	53.7	53.7
87.5°	13.1	17.8	19.1	19.1	20.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)