

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: P564756

Luminaire Tested: **SQ4-PW1-075U-075D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564756
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

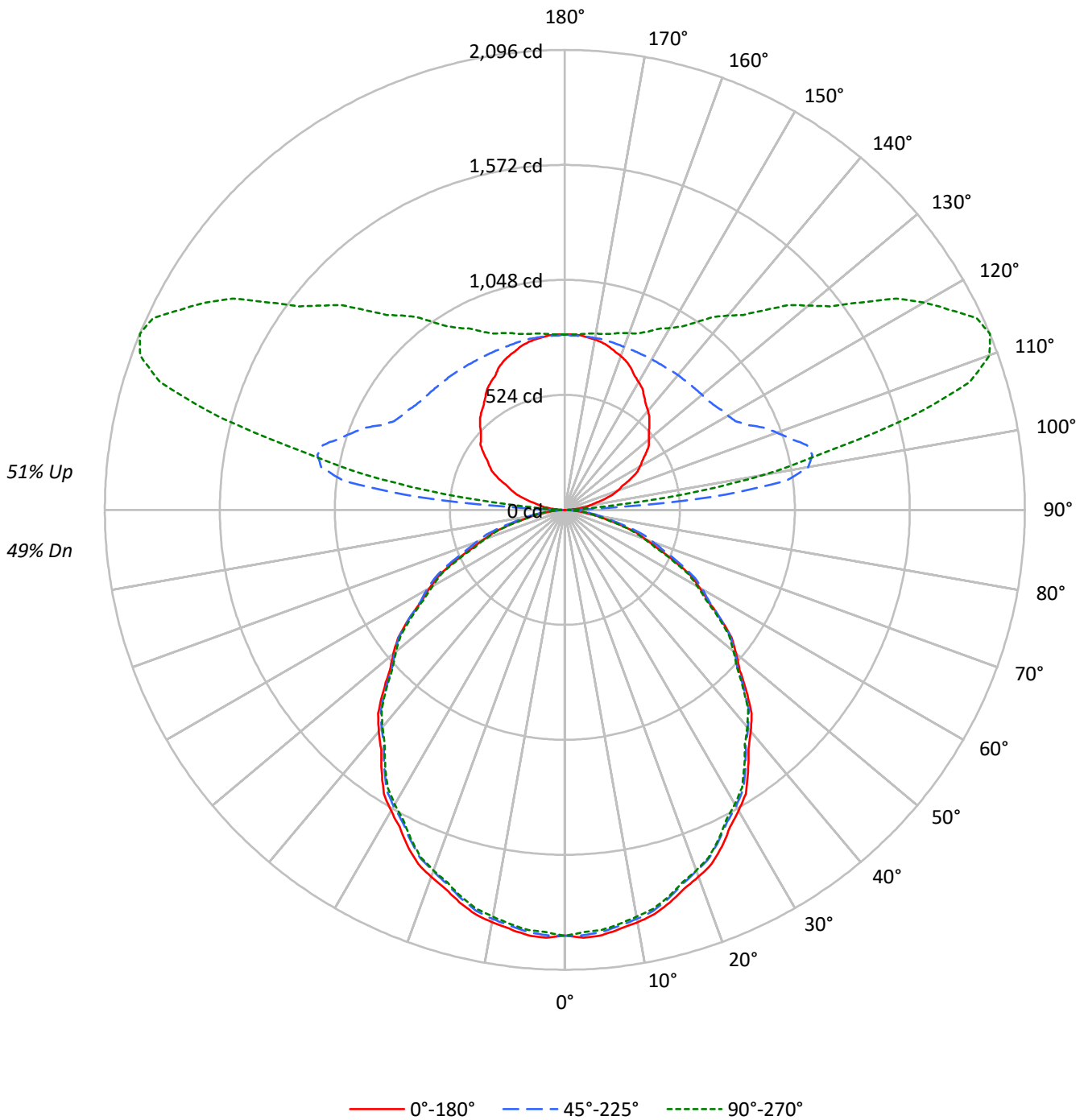
Lumens per Lamp: N/A
Luminaire Lumens: 10142.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 91
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	59	74	66	60	55	56	51	48	47	43	40	38	36	34	29
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	30	37	31	27	31	26	23	25	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8941	8901
10°	8940	8868	8820
15°	8845	8747	8714
20°	8739	8605	8588
25°	8617	8461	8435
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7531	7497
50°	7315	7254	7204
55°	6973	6973	6863
60°	6548	6674	6437
65°	5992	6291	5843
70°	5282	5789	5144
75°	4511	5181	4390
80°	3499	4362	3544
85°	2265	3350	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.8
10°-20°	516.0	5.1
20°-30°	765.4	7.5
30°-40°	895.6	8.8
40°-50°	891.6	8.8
50°-60°	769.9	7.6
60°-70°	554.2	5.5
70°-80°	290.6	2.9
80°-90°	74.1	0.7
90°-100°	376.7	3.7
100°-110°	1036.3	10.2
110°-120°	1069.6	10.5
120°-130°	857.0	8.4
130°-140°	673.1	6.6
140°-150°	515.8	5.1
150°-160°	370.9	3.7
160°-170°	226.8	2.2
170°-180°	76.4	0.8
0°-30°	1464.2	14.4
0°-40°	2359.8	23.3
0°-60°	4021.4	39.6
0°-90°	4940.3	48.7
90°-120°	2482.6	24.5
90°-150°	4528.5	44.6
90°-180°	5203.0	51.3
0°-180°	10142.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1941	1941	1941	1941	1941	
5°	1946	1924	1931	1926	1922	184
15°	1852	1829	1832	1828	1825	522
25°	1693	1665	1662	1652	1657	778
35°	1455	1435	1435	1421	1426	910
45°	1170	1160	1154	1151	1149	903
55°	867	865	867	855	853	774
65°	549	566	576	554	535	544
75°	253	276	291	271	246	271
85°	43	56	63	60	56	56
90°	2	7	12	15	15	5
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	

TEST NUMBER: P564756

CATALOG NUMBER: SQ4-PW1-075U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1941.0	1941.0	1941.0	1941.0	1941.0
2.5°	1951.9	1935.8	1941.0	1936.6	1927.3
5°	1946.1	1924.3	1930.7	1925.5	1922.1
7.5°	1926.2	1906.2	1910.9	1905.3	1903.3
10°	1908.5	1888.4	1893.1	1886.2	1882.8
12.5°	1887.9	1866.5	1871.2	1864.3	1862.3
15°	1852.0	1828.6	1831.5	1828.0	1824.7
17.5°	1810.3	1786.6	1787.0	1781.6	1780.9
20°	1780.2	1755.1	1752.8	1746.1	1749.4
22.5°	1747.4	1721.0	1718.6	1709.2	1713.9
25°	1693.0	1664.6	1662.2	1652.1	1657.1
27.5°	1630.1	1602.0	1602.0	1587.8	1593.1
30°	1583.5	1556.8	1559.6	1542.7	1549.3
32.5°	1534.3	1510.2	1511.7	1494.8	1501.5
35°	1455.3	1435.2	1434.8	1421.2	1426.2
37.5°	1374.6	1356.8	1354.0	1346.2	1347.6
40°	1318.5	1303.4	1298.0	1292.8	1292.8
42.5°	1259.7	1245.9	1240.5	1236.7	1235.4
45°	1169.7	1159.7	1154.3	1150.9	1149.2
47.5°	1080.8	1071.4	1066.8	1064.3	1062.7
50°	1019.2	1012.5	1010.7	1005.5	1003.8
52.5°	957.7	953.6	951.8	945.3	943.6
55°	867.0	865.3	867.0	855.0	853.3
57.5°	772.6	775.3	780.8	764.7	760.6
60°	709.7	716.4	723.4	704.4	697.7
62.5°	645.4	656.1	665.9	644.1	634.8
65°	548.9	565.7	576.3	553.7	535.3
67.5°	455.9	476.6	489.4	465.0	444.3
70°	391.6	415.0	429.2	404.8	381.4
72.5°	335.5	361.6	373.1	350.0	326.6
75°	253.1	276.5	290.7	271.3	246.3
77.5°	179.6	201.6	213.4	196.5	175.8
80°	131.7	155.1	164.2	150.1	133.4
82.5°	93.4	112.8	119.0	110.6	99.2
85°	42.8	56.1	63.3	59.8	56.4
87.5°	11.3	21.6	28.4	29.1	30.4
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



TEST NUMBER: P564756

CATALOG NUMBER: SQ4-PW1-075U-075D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)