

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: P564789

Luminaire Tested: **SQ4-PW1-075U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564789
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-125D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23440.1 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

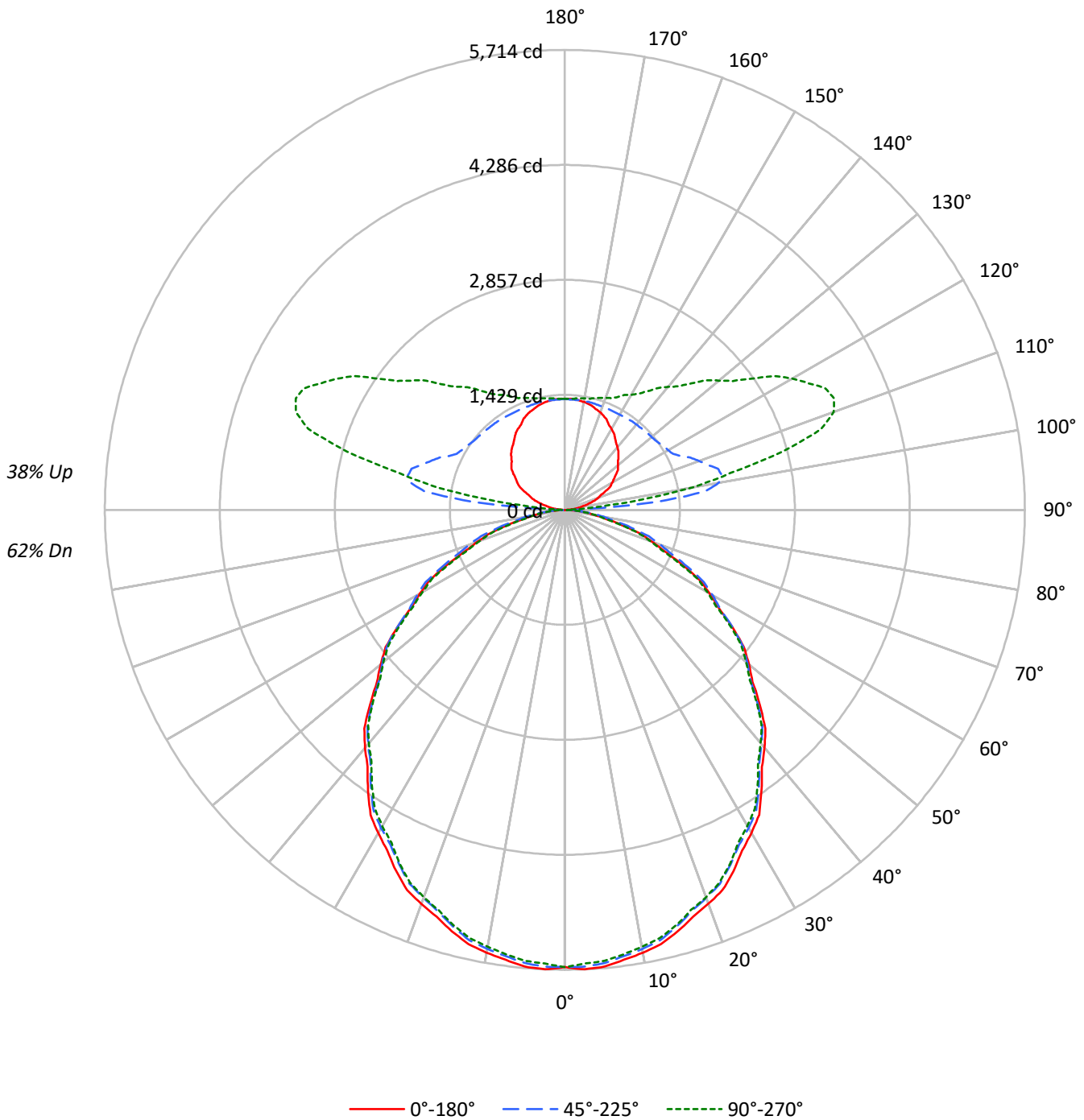
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P564789

CATALOG NUMBER: SQ4-PW1-075U-125D-835-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P564789

CATALOG NUMBER: SQ4-PW1-075U-125D-835-1D-UNV-STD-W-12

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17005
20°	17054	16792	16760
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10307	11297	10038
75°	8803	10112	8565
80°	6826	8512	6914
85°	4414	6535	5829



TEST NUMBER: P564789

CATALOG NUMBER: SQ4-PW1-075U-125D-835-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.0	2.3
10°-20°	1510.5	6.4
20°-30°	2240.5	9.6
30°-40°	2621.6	11.2
40°-50°	2609.9	11.1
50°-60°	2253.8	9.6
60°-70°	1622.3	6.9
70°-80°	850.7	3.6
80°-90°	214.4	0.9
90°-100°	650.2	2.8
100°-110°	1789.0	7.6
110°-120°	1846.5	7.9
120°-130°	1479.4	6.3
130°-140°	1162.0	5.0
140°-150°	890.5	3.8
150°-160°	640.2	2.7
160°-170°	391.5	1.7
170°-180°	132.0	0.6
0°-30°	4286.0	18.3
0°-40°	6907.6	29.5
0°-60°	11771.3	50.2
0°-90°	14458.8	61.7
90°-120°	4285.7	18.3
90°-150°	7817.7	33.4
90°-180°	8981.0	38.3
0°-180°	23440.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5682	5682	5682	5682	5682	
5°	5696	5633	5652	5636	5626	540
15°	5421	5353	5361	5351	5341	1528
25°	4956	4872	4866	4836	4851	2279
35°	4260	4201	4200	4160	4175	2663
45°	3424	3395	3379	3369	3364	2642
55°	2538	2533	2538	2503	2498	2264
65°	1607	1656	1687	1621	1567	1592
75°	741	809	851	794	721	794
85°	125	164	185	175	165	165
90°	3	12	20	26	26	11
95°	97	355	1150	492	314	102
105°	320	492	1971	3002	2801	337
115°	566	690	1581	3148	3573	559
125°	780	889	1434	2426	2842	696
135°	942	1045	1393	1962	2220	727
145°	1088	1163	1373	1672	1801	682
155°	1232	1272	1364	1503	1546	566
165°	1332	1349	1370	1426	1434	375
175°	1379	1382	1373	1390	1387	131
180°	1379	1379	1379	1379	1379	

TEST NUMBER: P564789

CATALOG NUMBER: SQ4-PW1-075U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5681.5	5681.5	5681.5	5681.5	5681.5
2.5°	5713.5	5666.6	5681.5	5668.9	5641.5
5°	5696.5	5632.9	5651.5	5636.2	5626.4
7.5°	5638.5	5579.7	5593.4	5577.3	5571.4
10°	5586.4	5527.7	5541.4	5521.1	5511.3
12.5°	5526.3	5463.7	5477.3	5457.1	5451.2
15°	5421.2	5352.7	5361.1	5350.9	5341.1
17.5°	5299.1	5229.6	5231.0	5214.9	5213.0
20°	5211.0	5137.6	5130.9	5111.1	5120.9
22.5°	5114.9	5037.5	5030.8	5003.0	5016.8
25°	4955.7	4872.5	4865.6	4835.9	4850.6
27.5°	4771.5	4689.2	4689.4	4647.7	4663.3
30°	4635.3	4557.0	4565.2	4515.6	4535.2
32.5°	4491.1	4420.7	4425.1	4375.5	4395.0
35°	4259.9	4201.1	4199.8	4160.1	4174.8
37.5°	4023.6	3971.7	3963.5	3940.6	3944.5
40°	3859.4	3815.4	3799.4	3784.3	3784.3
42.5°	3687.2	3647.1	3631.2	3620.1	3616.1
45°	3423.9	3394.6	3378.9	3368.8	3363.9
47.5°	3163.6	3136.2	3122.6	3115.5	3110.6
50°	2983.4	2963.8	2958.4	2943.3	2938.4
52.5°	2803.2	2791.5	2786.2	2767.1	2762.2
55°	2537.9	2533.0	2537.9	2502.8	2497.9
57.5°	2261.6	2269.4	2285.6	2238.3	2226.6
60°	2077.4	2097.0	2117.4	2061.9	2042.3
62.5°	1889.2	1920.5	1949.2	1885.5	1858.1
65°	1606.8	1655.8	1686.9	1620.6	1566.8
67.5°	1334.5	1395.2	1432.6	1361.2	1300.5
70°	1146.3	1214.8	1256.4	1184.8	1116.3
72.5°	982.1	1058.5	1092.3	1024.6	956.1
75°	740.8	809.4	851.0	794.2	720.8
77.5°	525.6	590.2	624.7	575.3	514.6
80°	385.4	454.0	480.6	439.4	390.4
82.5°	273.3	330.1	348.4	323.6	290.3
85°	125.1	164.3	185.2	175.0	165.2
87.5°	32.6	61.8	80.2	81.5	85.4
90°	2.9	11.5	20.5	26.4	26.4
92.5°	40.5	173.0	299.8	115.1	94.5
95°	96.8	354.9	1149.9	491.7	313.9
97.5°	157.8	393.6	1754.7	1352.0	953.9
100°	202.4	417.5	1944.8	1963.0	1601.6
102.5°	244.6	446.0	1994.1	2435.3	2103.8
105°	319.7	491.8	1971.2	3002.1	2801.3
107.5°	391.3	548.5	1859.1	3279.6	3339.3
110°	442.9	586.3	1774.6	3348.7	3555.2

TEST NUMBER: P564789

CATALOG NUMBER: SQ4-PW1-075U-125D-835-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.9	628.7	1690.2	3304.2	3618.5
115°	566.1	689.5	1581.0	3148.3	3572.8
117.5°	638.9	752.4	1511.8	2929.5	3409.7
120°	683.5	792.4	1481.3	2765.6	3261.8
122.5°	723.4	832.3	1460.2	2621.9	3092.9
125°	780.3	889.2	1434.4	2426.5	2842.4
127.5°	834.2	938.1	1417.4	2263.4	2628.2
130°	862.4	968.5	1408.0	2166.5	2499.2
132.5°	895.2	1001.4	1400.9	2081.3	2381.8
135°	941.6	1044.8	1393.3	1962.4	2220.5
137.5°	985.0	1080.8	1386.9	1866.3	2079.1
140°	1017.9	1106.8	1384.5	1802.5	1994.6
142.5°	1046.0	1128.0	1379.8	1745.5	1910.2
145°	1088.3	1162.8	1372.8	1672.0	1801.0
147.5°	1133.4	1197.7	1369.3	1606.9	1710.1
150°	1161.6	1218.9	1366.9	1571.1	1651.4
152.5°	1187.4	1240.2	1364.6	1540.3	1606.9
155°	1232.0	1272.1	1364.0	1502.8	1545.8
157.5°	1264.3	1296.9	1364.0	1472.0	1501.8
160°	1287.7	1313.5	1364.0	1455.4	1478.4
162.5°	1306.5	1327.7	1366.3	1441.3	1459.6
165°	1331.7	1348.9	1369.8	1425.8	1434.4
167.5°	1349.3	1362.5	1372.8	1412.7	1415.0
170°	1361.0	1369.7	1372.8	1408.0	1408.0
172.5°	1370.4	1374.5	1372.8	1400.9	1398.6
175°	1378.6	1381.5	1372.8	1390.3	1387.4
177.5°	1381.0	1381.0	1371.6	1385.6	1381.0
180°	1378.6	1378.6	1378.6	1378.6	1378.6

(END OF REPORT)