

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: P565079

Luminaire Tested: **SQ4-PW1-125U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565079
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PW1-125U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

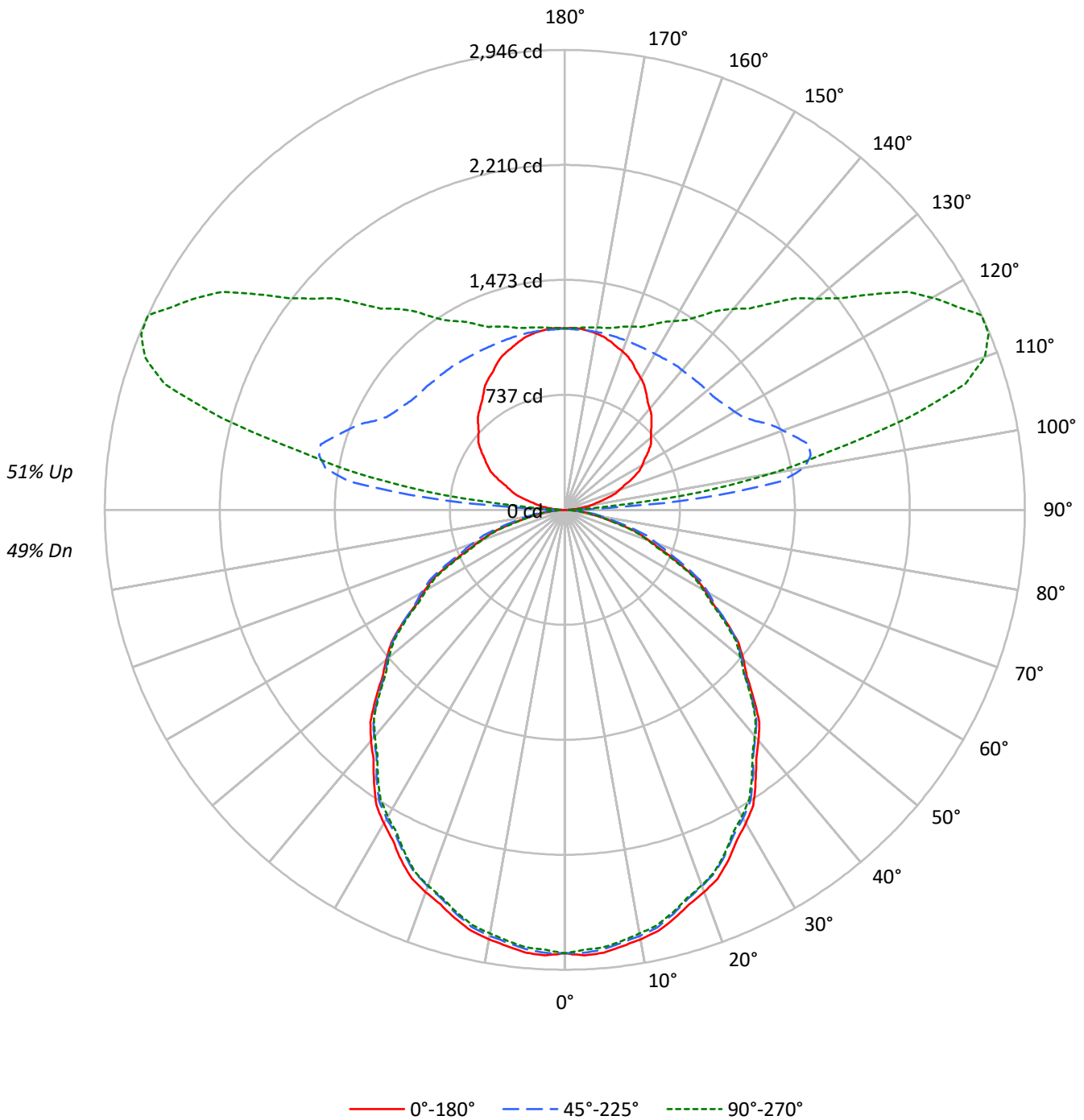
Lumens per Lamp: N/A
Luminaire Lumens: 14729.3 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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: P565079
CATALOG NUMBER: SQ4-PW1-125U-125D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P565079

CATALOG NUMBER: SQ4-PW1-125U-125D-835-1D-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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
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	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	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°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16759
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14892	14695	14630
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10308	11297	10037
75°	8803	10112	8565
80°	6826	8512	6914
85°	4418	6535	5829



TEST NUMBER: P565079

CATALOG NUMBER: SQ4-PW1-125U-125D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	1.8
10°-20°	755.2	5.1
20°-30°	1120.3	7.6
30°-40°	1310.8	8.9
40°-50°	1305.0	8.9
50°-60°	1126.9	7.7
60°-70°	811.2	5.5
70°-80°	425.4	2.9
80°-90°	108.2	0.7
90°-100°	543.4	3.7
100°-110°	1463.8	9.9
110°-120°	1536.2	10.4
120°-130°	1246.6	8.5
130°-140°	977.7	6.6
140°-150°	750.6	5.1
150°-160°	539.7	3.7
160°-170°	329.7	2.2
170°-180°	111.2	0.8
0°-30°	2143.0	14.5
0°-40°	3453.8	23.4
0°-60°	5885.6	40.0
0°-90°	7230.3	49.1
90°-120°	3543.5	24.1
90°-150°	6518.4	44.3
90°-180°	7499.0	50.9
0°-180°	14729.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2848	2816	2826	2818	2813	270
15°	2711	2676	2681	2676	2671	764
25°	2478	2436	2433	2418	2425	1139
35°	2130	2101	2100	2080	2087	1332
45°	1712	1697	1689	1684	1682	1321
55°	1269	1266	1269	1251	1249	1132
65°	803	828	844	810	783	796
75°	370	405	426	397	360	397
85°	63	82	93	88	83	83
90°	3	9	18	19	19	8
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	607
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	



TEST NUMBER: P565079

CATALOG NUMBER: SQ4-PW1-125U-125D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2840.8	2840.8	2840.8	2840.8	2840.8
2.5°	2856.8	2833.3	2840.8	2834.4	2820.7
5°	2848.3	2816.5	2825.7	2818.1	2813.2
7.5°	2819.2	2789.9	2796.7	2788.6	2785.7
10°	2793.2	2763.8	2770.7	2760.6	2755.7
12.5°	2763.2	2731.8	2738.6	2728.6	2725.6
15°	2710.6	2676.3	2680.6	2675.5	2670.6
17.5°	2649.5	2614.8	2615.5	2607.5	2606.5
20°	2605.5	2568.8	2565.4	2555.5	2560.4
22.5°	2557.4	2518.8	2515.4	2501.5	2508.4
25°	2477.8	2436.2	2432.8	2417.9	2425.3
27.5°	2385.7	2344.6	2344.7	2323.8	2331.7
30°	2317.7	2278.5	2282.6	2257.8	2267.6
32.5°	2245.6	2210.3	2212.5	2187.7	2197.5
35°	2129.9	2100.6	2099.9	2080.1	2087.4
37.5°	2011.8	1985.9	1981.8	1970.3	1972.3
40°	1929.7	1907.7	1899.7	1892.2	1892.2
42.5°	1843.6	1823.5	1815.6	1810.0	1808.1
45°	1712.0	1697.3	1689.4	1684.4	1681.9
47.5°	1581.8	1568.1	1561.3	1557.7	1555.3
50°	1491.7	1481.9	1479.2	1471.6	1469.2
52.5°	1401.6	1395.7	1393.1	1383.5	1381.1
55°	1269.0	1266.5	1269.0	1251.4	1248.9
57.5°	1130.8	1134.7	1142.8	1119.1	1113.3
60°	1038.7	1048.5	1058.7	1031.0	1021.2
62.5°	944.6	960.2	974.6	942.8	929.1
65°	803.4	827.9	843.5	810.3	783.4
67.5°	667.3	697.6	716.3	680.6	650.2
70°	573.2	607.4	628.2	592.4	558.1
72.5°	491.1	529.2	546.1	512.3	478.0
75°	370.4	404.7	425.5	397.1	360.4
77.5°	262.8	295.1	312.4	287.6	257.3
80°	192.7	227.0	240.3	219.7	195.2
82.5°	136.7	165.0	174.2	161.8	145.2
85°	62.6	82.1	92.6	87.5	82.6
87.5°	16.6	31.5	41.6	41.9	43.9
90°	3.0	8.7	17.8	19.2	19.2
92.5°	36.1	127.6	252.2	121.4	84.3
95°	82.9	295.6	890.8	455.5	315.2
97.5°	132.3	338.3	1397.2	1167.2	880.2
100°	170.2	355.4	1558.2	1630.3	1352.5
102.5°	206.9	379.3	1611.5	1977.1	1749.1
105°	270.8	421.3	1618.9	2422.0	2272.9
107.5°	331.2	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.5	2861.9



TEST NUMBER: P565079

CATALOG NUMBER: SQ4-PW1-125U-125D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.8	2936.5
115°	478.0	585.0	1348.1	2604.8	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.8	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.6	1195.7	1901.8	2224.7
130°	722.1	817.6	1189.7	1819.2	2102.8
132.5°	748.2	842.5	1183.8	1746.4	2006.9
135°	785.8	876.9	1176.4	1650.5	1869.0
137.5°	821.6	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.0	1519.0	1681.0
142.5°	872.5	950.6	1166.7	1472.2	1608.8
145°	908.6	979.5	1161.6	1411.1	1515.3
147.5°	947.7	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.2	1154.2	1327.4	1395.4
152.5°	997.4	1044.0	1153.0	1301.1	1356.4
155°	1031.4	1069.0	1151.3	1266.1	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.8
160°	1080.2	1104.8	1152.7	1227.2	1247.5
162.5°	1096.8	1116.8	1153.9	1215.2	1229.7
165°	1118.7	1131.7	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.6	1161.6	1161.6	1161.6	1161.6

(END OF REPORT)