

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: P564411

Luminaire Tested: **SQ4-PR1-125U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564411
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

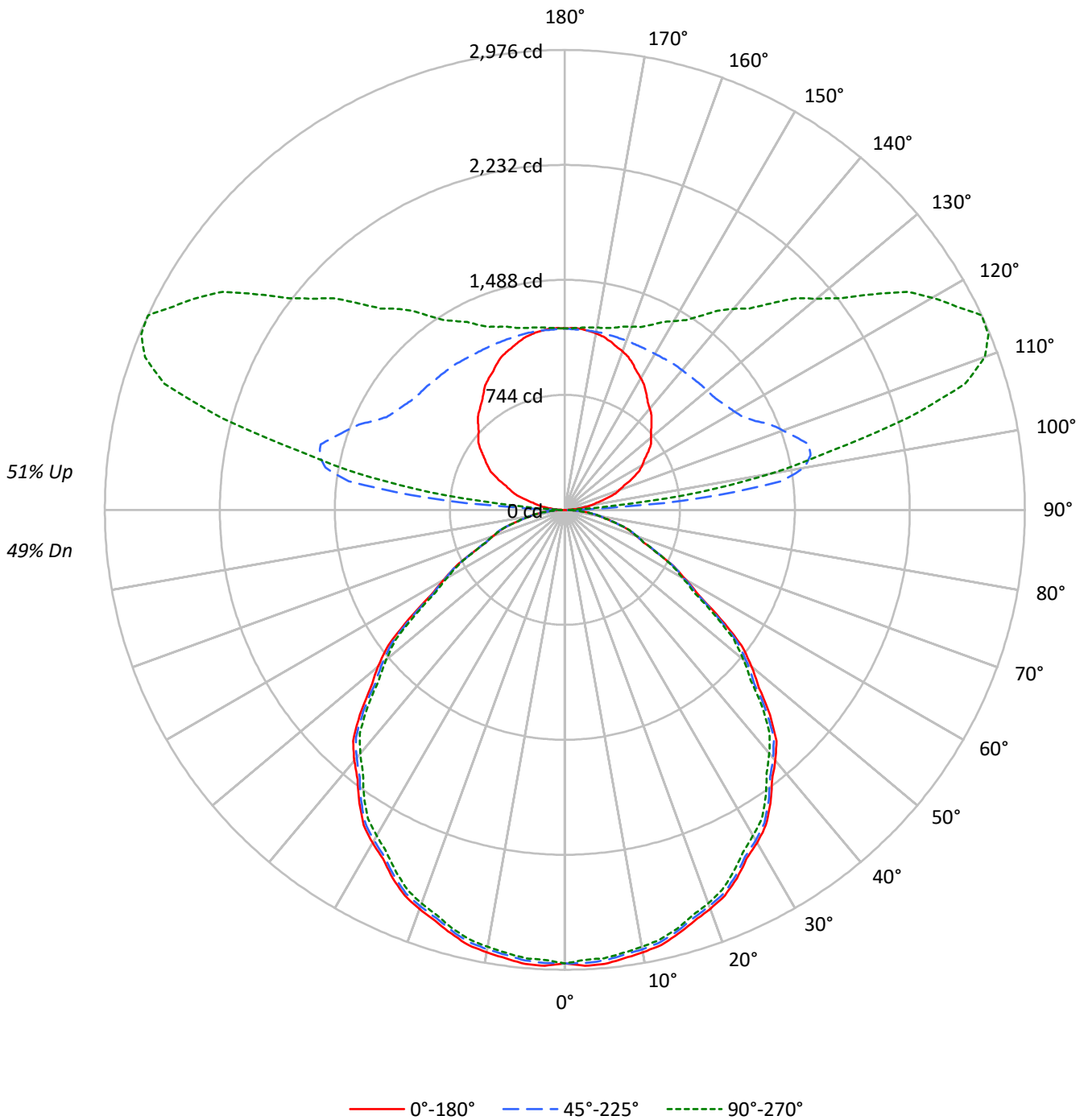
Lumens per Lamp: N/A
Luminaire Lumens: 14914.5 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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: P564411
CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564411

CATALOG NUMBER: SQ4-PR1-125U-125D-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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31
4	75	64	56	51	69	60	53	47	51	46	41	43	39	36	35	32	30	26
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23
6	63	51	43	38	58	48	41	36	41	36	31	35	30	27	29	26	23	20
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15
10	47	35	28	23	44	33	27	22	29	23	20	25	20	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18053	18053	18053
5°	18215	18075	17981
10°	18158	18031	17937
15°	18078	17965	17869
20°	17987	17871	17739
25°	17860	17740	17535
30°	17668	17542	17291
35°	17407	17255	17008
40°	17010	16828	16523
45°	16317	16031	15701
50°	15095	14732	14441
55°	13175	12877	12606
60°	11102	11009	10791
65°	9603	9639	9566
70°	8819	8866	8866
75°	8472	8472	8532
80°	7970	8058	7970
85°	6422	7135	7135



TEST NUMBER: P564411

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	1.9
10°-20°	794.1	5.3
20°-30°	1197.8	8.0
30°-40°	1427.1	9.6
40°-50°	1407.0	9.4
50°-60°	1075.3	7.2
60°-70°	665.4	4.5
70°-80°	378.0	2.5
80°-90°	117.7	0.8
90°-100°	548.9	3.7
100°-110°	1478.5	9.9
110°-120°	1551.7	10.4
120°-130°	1259.2	8.4
130°-140°	987.5	6.6
140°-150°	758.2	5.1
150°-160°	545.1	3.7
160°-170°	333.0	2.2
170°-180°	112.3	0.8
0°-30°	2269.4	15.2
0°-40°	3696.6	24.8
0°-60°	6178.9	41.4
0°-90°	7340.1	49.2
90°-120°	3579.1	24.0
90°-150°	6584.0	44.1
90°-180°	7574.0	50.8
0°-180°	14914.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2935	2935	2935	2935	2935	
5°	2950	2918	2928	2917	2912	280
15°	2839	2809	2821	2811	2806	801
25°	2632	2600	2614	2586	2584	1211
35°	2318	2291	2298	2268	2265	1447
45°	1876	1851	1843	1810	1805	1437
55°	1229	1209	1201	1180	1176	1101
65°	660	655	662	657	657	668
75°	356	356	356	359	359	376
85°	91	96	101	101	101	106
90°	3	9	18	19	19	10
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

TEST NUMBER: P564411

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.1	2935.1	2935.1	2935.1	2935.1
2.5°	2953.3	2927.6	2935.1	2928.7	2914.8
5°	2950.2	2918.1	2927.5	2917.3	2912.3
7.5°	2927.5	2895.8	2905.2	2895.1	2892.1
10°	2907.3	2877.6	2887.0	2876.8	2871.9
12.5°	2885.0	2853.4	2864.8	2852.5	2847.6
15°	2839.0	2809.3	2821.3	2811.1	2806.1
17.5°	2788.4	2756.8	2768.7	2756.9	2750.5
20°	2748.0	2718.3	2730.3	2712.5	2710.1
22.5°	2703.5	2673.8	2685.8	2662.0	2661.5
25°	2631.7	2599.6	2614.0	2586.1	2583.7
27.5°	2546.2	2516.6	2528.6	2500.2	2497.2
30°	2487.6	2457.9	2469.9	2439.5	2434.5
32.5°	2420.9	2393.2	2403.2	2372.8	2369.8
35°	2318.2	2291.0	2298.0	2267.6	2265.1
37.5°	2201.4	2176.7	2180.7	2147.3	2144.8
40°	2118.5	2093.8	2095.8	2060.3	2057.8
42.5°	2027.5	2002.8	2000.7	1965.2	1962.8
45°	1875.8	1851.1	1842.9	1810.0	1805.0
47.5°	1702.9	1678.2	1662.9	1636.1	1632.6
50°	1577.5	1552.8	1539.6	1516.7	1509.2
52.5°	1442.0	1417.3	1406.1	1385.2	1377.8
55°	1228.6	1208.9	1200.8	1180.5	1175.5
57.5°	1025.9	1012.5	1010.2	990.4	988.5
60°	902.5	895.1	894.9	877.2	877.2
62.5°	797.3	791.9	795.8	784.2	782.2
65°	659.8	654.9	662.3	657.3	657.3
67.5°	551.1	551.1	555.7	553.6	553.6
70°	490.4	490.4	493.0	493.0	493.0
72.5°	435.8	433.9	440.4	440.3	438.4
75°	356.5	356.5	356.5	359.0	359.0
77.5°	277.6	278.1	280.1	279.6	277.6
80°	225.0	227.5	227.5	225.0	225.0
82.5°	172.4	174.9	174.9	174.4	172.4
85°	91.0	96.0	101.1	101.1	101.1
87.5°	26.9	36.0	44.0	44.3	42.3
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



TEST NUMBER: P564411

CATALOG NUMBER: SQ4-PR1-125U-125D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)