

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: P563641

Luminaire Tested: **SQ4-PP3-100U-125D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563641  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PP3-100U-125D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

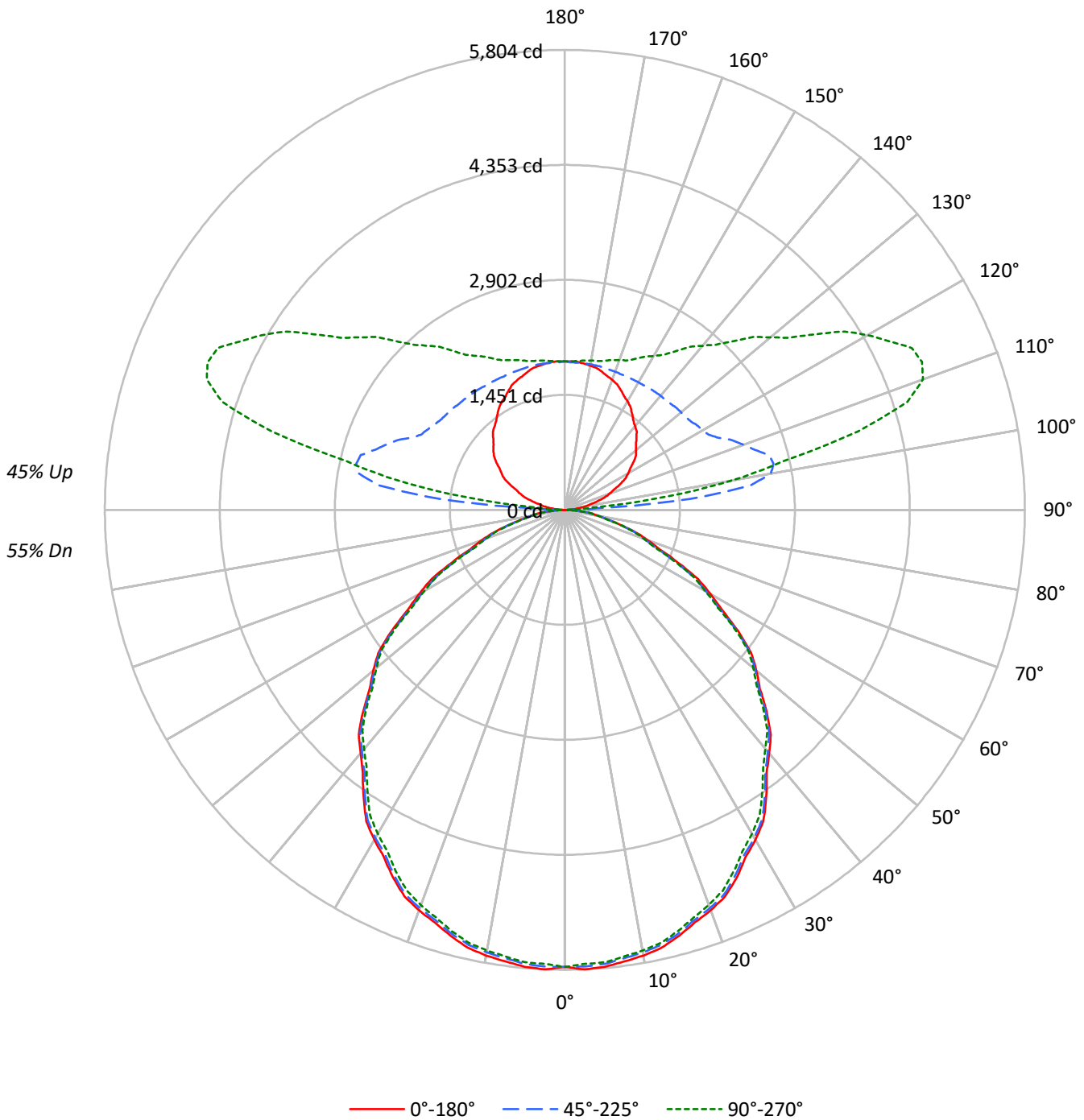
Lumens per Lamp: N/A  
Luminaire Lumens: 26936.1 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 214.8  
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: P563641  
CATALOG NUMBER: SQ4-PP3-100U-125D-840-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot





TEST NUMBER: P563641

CATALOG NUMBER: SQ4-PP3-100U-125D-840-1D-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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	17738	17738	17738
5°	17868	17759	17696
10°	17838	17712	17633
15°	17720	17623	17527
20°	17602	17503	17371
25°	17393	17273	17101
30°	17071	16981	16766
35°	16625	16511	16302
40°	16093	15992	15809
45°	15653	15543	15389
50°	15092	14995	14850
55°	14311	14121	14013
60°	13027	12654	12592
65°	11477	10998	10962
70°	9909	9500	9500
75°	8529	8409	8289
80°	7520	7610	7431
85°	5886	6422	6422



TEST NUMBER: P563641

CATALOG NUMBER: SQ4-PP3-100U-125D-840-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	545.4	2.0
10°-20°	1557.3	5.8
20°-30°	2332.6	8.7
30°-40°	2736.0	10.2
40°-50°	2744.5	10.2
50°-60°	2341.3	8.7
60°-70°	1526.9	5.7
70°-80°	766.1	2.8
80°-90°	215.9	0.8
90°-100°	877.2	3.3
100°-110°	2421.6	9.0
110°-120°	2497.4	9.3
120°-130°	2006.9	7.5
130°-140°	1577.2	5.9
140°-150°	1209.7	4.5
150°-160°	869.4	3.2
160°-170°	531.7	2.0
170°-180°	179.2	0.7
0°-30°	4435.2	16.5
0°-40°	7171.2	26.6
0°-60°	12257.0	45.5
0°-90°	14765.9	54.8
90°-120°	5796.2	21.5
90°-150°	10589.9	39.3
90°-180°	12170.0	45.2
0°-180°	26936.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5768	5768	5768	5768	5768	
5°	5788	5734	5752	5732	5732	550
15°	5566	5511	5535	5515	5505	1570
25°	5126	5066	5090	5045	5040	2357
35°	4428	4384	4398	4347	4342	2766
45°	3599	3574	3574	3538	3538	2771
55°	2669	2659	2634	2618	2613	2372
65°	1577	1548	1511	1501	1506	1574
75°	718	718	708	702	698	779
85°	167	182	182	182	182	196
90°	6	12	24	27	30	15
95°	129	475	1591	654	426	138
105°	432	666	2664	4067	3830	459
115°	773	934	2146	4248	4831	760
125°	1061	1207	1945	3292	3863	944
135°	1277	1414	1891	2666	3006	988
145°	1480	1583	1867	2270	2442	927
155°	1669	1725	1852	2036	2101	769
165°	1807	1831	1861	1933	1948	509
175°	1873	1876	1864	1891	1885	178
180°	1873	1873	1873	1873	1873	

TEST NUMBER: P563641

CATALOG NUMBER: SQ4-PP3-100U-125D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5767.7	5767.7	5767.7	5767.7	5767.7
2.5°	5804.0	5756.6	5767.7	5759.0	5735.3
5°	5787.9	5733.5	5752.5	5732.3	5732.3
7.5°	5748.4	5689.1	5708.0	5687.8	5686.8
10°	5712.0	5652.7	5671.6	5651.3	5646.3
12.5°	5659.5	5600.2	5623.1	5598.8	5597.8
15°	5565.5	5511.1	5535.1	5514.7	5504.8
17.5°	5459.3	5400.0	5429.0	5400.6	5396.6
20°	5378.4	5319.1	5348.1	5307.7	5307.7
22.5°	5281.4	5222.1	5255.1	5202.5	5202.5
25°	5125.7	5066.4	5090.3	5044.7	5039.7
27.5°	4940.7	4882.3	4907.3	4855.7	4854.7
30°	4807.2	4752.8	4781.9	4726.2	4721.3
32.5°	4661.6	4611.2	4632.3	4576.6	4571.7
35°	4428.1	4383.6	4397.8	4347.1	4342.2
37.5°	4182.4	4137.0	4153.1	4109.6	4107.6
40°	4008.5	3978.9	3983.3	3947.7	3937.8
42.5°	3846.8	3813.2	3817.5	3782.0	3780.1
45°	3599.1	3574.4	3573.8	3538.4	3538.4
47.5°	3336.2	3317.5	3312.0	3282.6	3281.6
50°	3154.3	3139.4	3134.0	3108.7	3103.7
52.5°	2964.2	2957.3	2939.9	2918.7	2917.7
55°	2669.0	2659.1	2633.6	2618.3	2613.4
57.5°	2348.5	2328.7	2300.0	2277.8	2281.8
60°	2118.0	2098.2	2057.3	2047.2	2047.2
62.5°	1895.6	1871.9	1830.9	1816.9	1824.8
65°	1577.1	1547.5	1511.4	1501.4	1506.4
67.5°	1288.0	1261.3	1222.3	1222.2	1218.2
70°	1102.0	1087.1	1056.5	1056.5	1056.5
72.5°	936.2	929.2	906.9	906.8	902.8
75°	717.8	717.8	707.7	702.5	697.6
77.5°	537.8	539.8	534.8	529.6	520.7
80°	424.6	434.5	429.7	424.5	419.6
82.5°	319.5	329.4	328.6	319.4	318.5
85°	166.8	181.6	182.0	182.0	182.0
87.5°	45.7	62.7	69.5	70.2	74.7
90°	6.0	11.9	24.0	27.0	30.0
92.5°	53.9	223.9	400.4	146.1	113.9
95°	128.9	474.6	1591.4	654.1	425.6
97.5°	213.4	531.6	2357.4	1814.9	1314.4
100°	275.7	565.8	2640.3	2658.9	2160.8
102.5°	335.7	604.7	2695.4	3285.3	2812.9
105°	431.6	666.0	2664.2	4067.4	3830.0
107.5°	533.4	742.1	2515.6	4444.6	4531.3
110°	605.4	792.9	2400.5	4525.7	4807.0



TEST NUMBER: P563641

CATALOG NUMBER: SQ4-PP3-100U-125D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	670.1	850.6	2292.6	4461.6	4876.6
115°	773.2	934.4	2145.8	4247.9	4831.0
117.5°	863.1	1023.7	2049.3	3947.0	4610.4
120°	923.0	1081.3	2010.9	3743.3	4411.4
122.5°	980.6	1131.8	1979.8	3553.1	4186.1
125°	1060.9	1207.4	1945.0	3291.6	3863.0
127.5°	1129.2	1275.7	1924.6	3070.4	3563.3
130°	1174.8	1321.3	1915.0	2935.2	3383.5
132.5°	1217.9	1357.4	1905.4	2821.5	3227.7
135°	1276.7	1414.4	1891.0	2666.0	3005.9
137.5°	1342.6	1468.0	1883.9	2535.4	2825.5
140°	1378.6	1501.6	1879.1	2448.3	2703.2
142.5°	1419.3	1533.0	1874.3	2370.9	2595.3
145°	1480.5	1583.0	1867.1	2269.6	2442.5
147.5°	1539.2	1628.9	1860.5	2184.2	2318.4
150°	1582.4	1655.6	1858.1	2133.3	2241.7
152.5°	1615.9	1684.5	1855.7	2089.7	2179.3
155°	1669.3	1725.0	1852.1	2036.4	2100.8
157.5°	1718.4	1761.2	1852.7	1997.5	2041.5
160°	1747.2	1785.3	1855.1	1975.7	2007.9
162.5°	1771.2	1804.6	1857.5	1956.4	1981.6
165°	1807.1	1830.6	1861.1	1933.3	1948.0
167.5°	1834.7	1848.8	1864.1	1919.3	1924.0
170°	1849.1	1860.8	1864.1	1912.0	1912.0
172.5°	1861.1	1868.1	1864.1	1902.4	1900.0
175°	1873.1	1876.0	1864.1	1890.9	1885.1
177.5°	1877.9	1875.5	1863.5	1880.2	1875.5
180°	1873.1	1873.1	1873.1	1873.1	1873.1

(END OF REPORT)