

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: P563836

Luminaire Tested: **SQ4-PP3-150U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563836  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

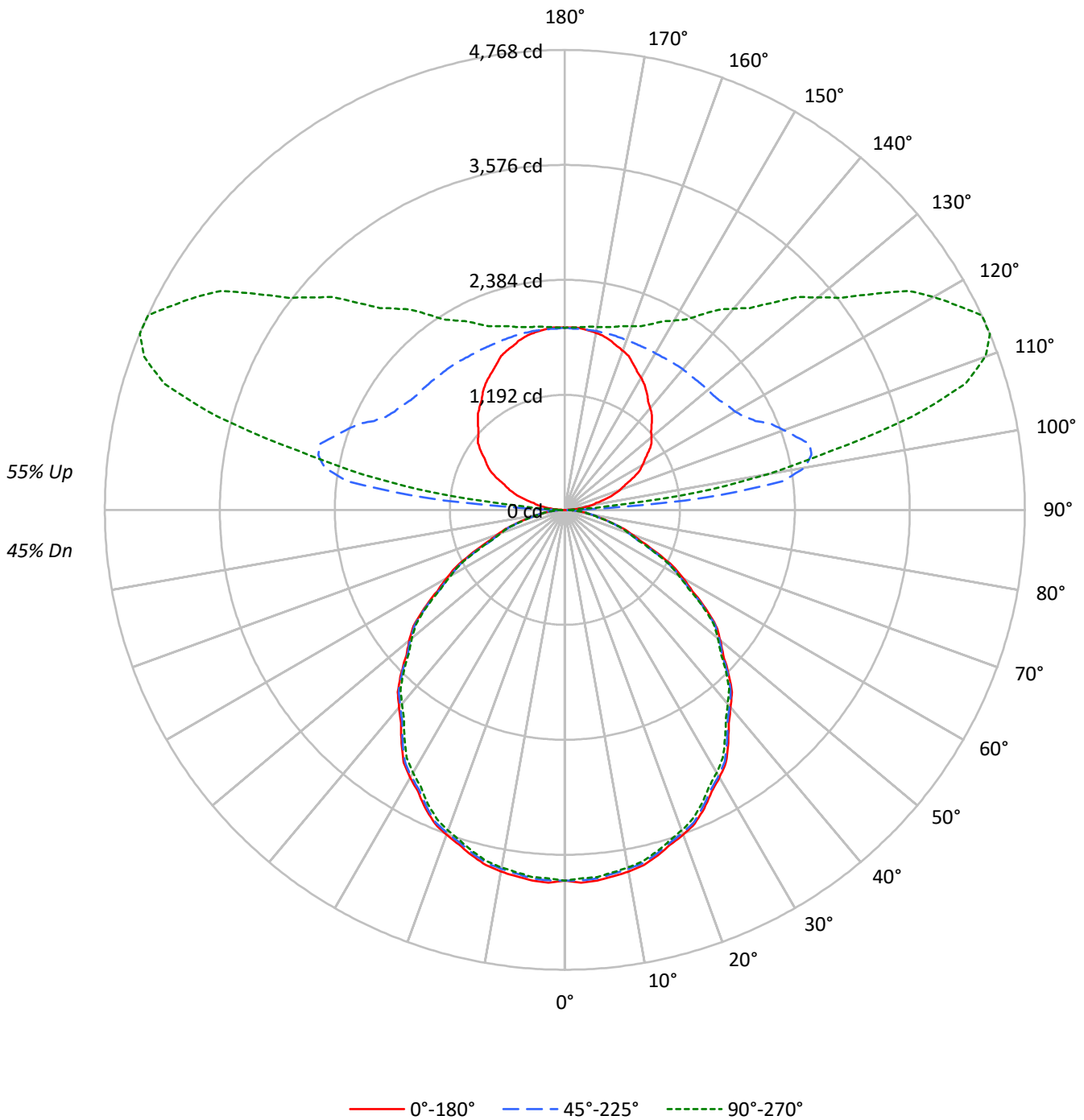
Lumens per Lamp: N/A  
Luminaire Lumens: 22014.4 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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: P563836  
CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-8

### Luminous Intensity Polar Plot





TEST NUMBER: P563836

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-8

**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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

**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	16982	16766
35°	16625	16511	16302
40°	16093	15991	15809
45°	15653	15543	15390
50°	15091	14995	14849
55°	14310	14121	14013
60°	13027	12655	12592
65°	11477	10998	10961
70°	9908	9499	9499
75°	8529	8409	8290
80°	7521	7608	7430
85°	5886	6420	6420



TEST NUMBER: P563836

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-8

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.6	1.7
10°-20°	1038.2	4.7
20°-30°	1555.0	7.1
30°-40°	1824.0	8.3
40°-50°	1829.7	8.3
50°-60°	1560.9	7.1
60°-70°	1018.0	4.6
70°-80°	510.7	2.3
80°-90°	145.3	0.7
90°-100°	877.2	4.0
100°-110°	2371.7	10.8
110°-120°	2493.5	11.3
120°-130°	2025.4	9.2
130°-140°	1588.7	7.2
140°-150°	1219.4	5.5
150°-160°	877.0	4.0
160°-170°	535.7	2.4
170°-180°	180.6	0.8
0°-30°	2956.8	13.4
0°-40°	4780.8	21.7
0°-60°	8171.3	37.1
0°-90°	9845.3	44.7
90°-120°	5742.4	26.1
90°-150°	10575.8	48.0
90°-180°	12169.0	55.3
0°-180°	22014.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3845	3845	3845	3845	3845	
5°	3859	3822	3835	3822	3822	366
15°	3710	3674	3690	3676	3670	1047
25°	3417	3378	3394	3363	3360	1571
35°	2952	2922	2932	2898	2895	1844
45°	2399	2383	2382	2359	2359	1847
55°	1779	1773	1756	1746	1742	1581
65°	1051	1032	1008	1001	1004	1049
75°	478	478	472	468	465	519
85°	111	121	121	121	121	131
90°	4	12	26	28	26	13
95°	136	478	1459	755	449	142
105°	441	681	2631	3881	3722	464
115°	776	949	2182	4224	4768	766
125°	1063	1218	1967	3319	3899	947
135°	1274	1425	1914	2680	3033	984
145°	1481	1592	1888	2294	2468	927
155°	1672	1738	1871	2058	2125	771
165°	1820	1838	1879	1953	1963	513
175°	1890	1888	1881	1906	1902	179
180°	1888	1888	1888	1888	1888	

TEST NUMBER: P563836

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3845.1	3845.1	3845.1	3845.1	3845.1
2.5°	3869.4	3837.7	3845.1	3839.3	3823.5
5°	3858.6	3822.3	3835.0	3821.5	3821.5
7.5°	3832.3	3792.8	3805.3	3791.8	3791.2
10°	3808.0	3768.5	3781.1	3767.5	3764.2
12.5°	3773.0	3733.4	3748.7	3732.5	3731.9
15°	3710.3	3674.1	3690.1	3676.5	3669.9
17.5°	3639.5	3600.0	3619.3	3600.4	3597.7
20°	3585.6	3546.1	3565.4	3538.4	3538.4
22.5°	3520.9	3481.4	3503.4	3468.3	3468.3
25°	3417.1	3377.6	3393.5	3363.1	3359.8
27.5°	3293.8	3254.9	3271.5	3237.1	3236.5
30°	3204.8	3168.6	3188.0	3150.8	3147.5
32.5°	3107.8	3074.1	3088.2	3051.1	3047.8
35°	2952.1	2922.4	2931.8	2898.1	2894.8
37.5°	2788.3	2758.0	2768.7	2739.7	2738.4
40°	2672.4	2652.6	2655.5	2631.8	2625.2
42.5°	2564.5	2542.1	2545.0	2521.4	2520.0
45°	2399.4	2382.9	2382.5	2359.0	2359.0
47.5°	2224.2	2211.6	2208.0	2188.4	2187.8
50°	2102.8	2093.0	2089.4	2072.4	2069.1
52.5°	1976.1	1971.5	1960.0	1945.8	1945.1
55°	1779.3	1772.7	1755.7	1745.6	1742.3
57.5°	1565.7	1552.5	1533.3	1518.6	1521.2
60°	1412.0	1398.8	1371.6	1364.8	1364.8
62.5°	1263.7	1247.9	1220.6	1211.3	1216.5
65°	1051.4	1031.7	1007.6	1000.9	1004.2
67.5°	858.7	840.9	814.9	814.8	812.2
70°	734.6	724.8	704.3	704.3	704.3
72.5°	624.1	619.5	604.6	604.5	601.9
75°	478.5	478.5	471.8	468.3	465.1
77.5°	358.6	359.9	356.5	353.0	347.1
80°	283.1	289.7	286.4	283.0	279.7
82.5°	213.0	219.6	219.0	213.0	212.3
85°	111.2	121.1	121.3	121.3	121.3
87.5°	30.5	42.6	48.4	48.9	51.1
90°	4.1	12.0	26.4	28.4	26.4
92.5°	57.7	210.3	414.9	180.1	130.4
95°	136.1	477.8	1458.8	754.9	449.0
97.5°	218.6	548.0	2273.9	1881.8	1382.0
100°	280.4	576.4	2527.4	2635.8	2131.3
102.5°	337.3	615.8	2616.8	3207.6	2830.2
105°	440.9	681.3	2631.1	3881.0	3722.1
107.5°	536.8	756.1	2516.1	4301.1	4354.0
110°	611.5	810.2	2413.7	4413.9	4638.4



TEST NUMBER: P563836

CATALOG NUMBER: SQ4-PP3-150U-125D-840-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	678.2	864.1	2319.4	4391.4	4768.4
115°	776.1	948.9	2182.1	4224.1	4768.4
117.5°	872.0	1034.1	2091.4	3968.5	4585.6
120°	930.5	1089.4	2037.8	3785.2	4414.9
122.5°	985.8	1141.5	2005.3	3588.6	4223.1
125°	1062.6	1217.5	1966.7	3318.8	3898.8
127.5°	1133.3	1285.5	1943.9	3098.6	3608.7
130°	1172.3	1329.2	1934.2	2962.5	3423.4
132.5°	1212.9	1368.3	1924.4	2839.8	3264.1
135°	1273.9	1424.9	1913.9	2679.7	3033.3
137.5°	1335.2	1477.9	1904.9	2549.8	2837.9
140°	1377.5	1510.6	1901.7	2466.2	2722.5
142.5°	1418.1	1543.3	1895.2	2390.7	2615.2
145°	1481.1	1592.4	1887.5	2293.7	2468.5
147.5°	1538.4	1636.9	1878.5	2205.8	2340.1
150°	1580.7	1668.1	1875.3	2158.1	2265.4
152.5°	1619.7	1696.0	1873.6	2113.8	2202.0
155°	1672.1	1737.7	1871.2	2057.6	2125.2
157.5°	1726.5	1772.2	1871.6	2018.5	2063.0
160°	1757.4	1795.2	1873.2	1993.8	2025.6
162.5°	1781.8	1813.2	1874.9	1974.1	1998.0
165°	1820.4	1838.3	1879.3	1952.7	1962.6
167.5°	1846.8	1859.1	1879.7	1934.3	1939.1
170°	1863.1	1869.0	1881.4	1926.1	1926.1
172.5°	1876.1	1877.3	1881.4	1916.3	1914.7
175°	1889.5	1887.5	1881.4	1905.7	1901.7
177.5°	1894.0	1889.2	1881.0	1897.1	1892.3
180°	1887.5	1887.5	1887.5	1887.5	1887.5

(END OF REPORT)