

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: P563097

Luminaire Tested: **SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563097
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

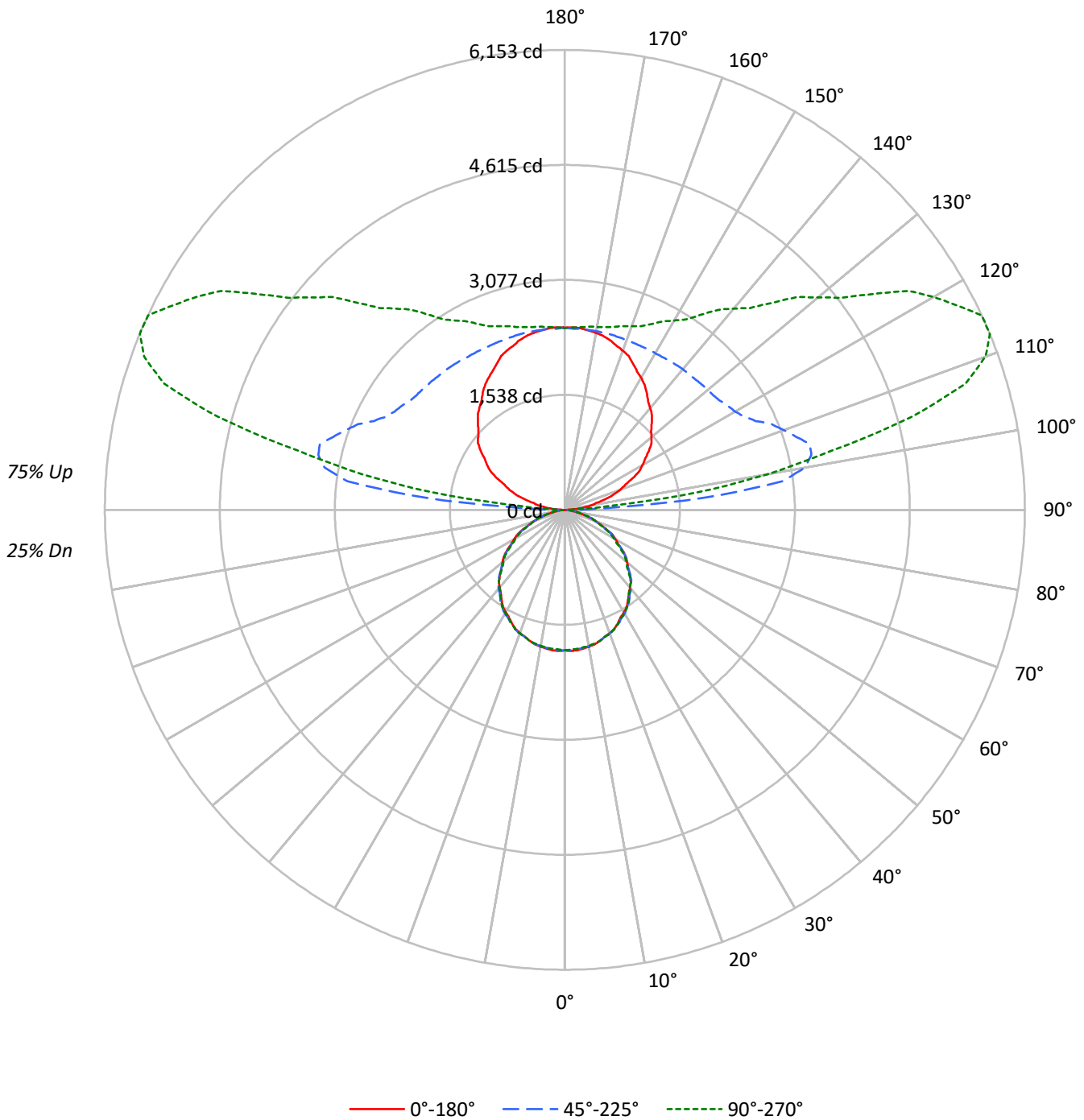
Lumens per Lamp: N/A
Luminaire Lumens: 20837.4 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 168.9
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: P563097
CATALOG NUMBER: SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12

Luminous Intensity Polar Plot





TEST NUMBER: P563097

CATALOG NUMBER: SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25		
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21		
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17		
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15		
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13		
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11		
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10		
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8		
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8		
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7		
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5204	5204	5121
55°	5039	4974	4899
60°	4796	4699	4624
65°	4432	4344	4306
70°	3881	3912	3897
75°	3123	3453	3474
80°	2219	2928	2959
85°	1351	2456	2456



TEST NUMBER: P563097

CATALOG NUMBER: SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	0.9
10°-20°	510.5	2.4
20°-30°	773.1	3.7
30°-40°	926.8	4.4
40°-50°	945.0	4.5
50°-60°	824.9	4.0
60°-70°	590.6	2.8
70°-80°	304.2	1.5
80°-90°	82.0	0.4
90°-100°	1131.9	5.4
100°-110°	3060.3	14.7
110°-120°	3217.5	15.4
120°-130°	2613.5	12.5
130°-140°	2050.0	9.8
140°-150°	1573.4	7.6
150°-160°	1131.6	5.4
160°-170°	691.3	3.3
170°-180°	233.1	1.1
0°-30°	1461.4	7.0
0°-40°	2388.2	11.5
0°-60°	4158.2	20.0
0°-90°	5134.9	24.6
90°-120°	7409.7	35.6
90°-150°	13646.6	65.5
90°-180°	15703.0	75.4
0°-180°	20837.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1887	1868	1874	1869	1867	179
15°	1815	1800	1815	1815	1814	512
25°	1676	1664	1688	1683	1683	771
35°	1474	1471	1497	1486	1486	922
45°	1229	1225	1237	1222	1218	946
55°	940	928	928	914	914	838
65°	609	596	597	592	592	602
75°	263	275	291	292	292	284
85°	38	59	70	71	70	52
90°	5	16	34	37	34	13
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	



TEST NUMBER: P563097

CATALOG NUMBER: SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.6	1879.6	1879.6	1879.6	1879.6
2.5°	1890.8	1874.4	1879.6	1875.3	1868.5
5°	1886.6	1867.9	1874.4	1869.1	1867.4
7.5°	1873.0	1854.3	1862.9	1859.4	1857.7
10°	1860.5	1841.8	1851.8	1848.3	1846.6
12.5°	1843.8	1826.4	1837.9	1834.4	1834.0
15°	1815.2	1799.9	1815.2	1815.2	1813.5
17.5°	1779.4	1765.4	1781.8	1782.8	1781.8
20°	1754.3	1739.0	1759.5	1757.8	1759.5
22.5°	1723.7	1711.1	1733.1	1728.6	1730.3
25°	1676.0	1664.1	1688.2	1683.0	1683.0
27.5°	1619.6	1611.1	1637.4	1631.8	1631.8
30°	1582.0	1573.5	1601.2	1594.2	1594.2
32.5°	1540.2	1534.5	1560.8	1552.4	1552.4
35°	1474.1	1470.7	1496.7	1486.3	1486.3
37.5°	1405.9	1402.8	1426.4	1413.8	1409.7
40°	1355.8	1354.1	1374.9	1361.0	1361.0
42.5°	1305.6	1303.9	1322.0	1305.3	1305.3
45°	1228.7	1225.3	1237.4	1221.7	1218.3
47.5°	1144.8	1141.4	1149.0	1131.9	1130.2
50°	1087.7	1084.3	1087.7	1072.0	1070.3
52.5°	1029.3	1023.1	1023.7	1008.0	1007.7
55°	939.8	927.9	927.6	913.7	913.7
57.5°	845.1	829.5	830.9	819.0	817.3
60°	779.7	762.7	764.0	753.6	751.8
62.5°	715.6	695.9	700.0	688.1	687.8
65°	609.1	595.5	597.0	591.7	591.7
67.5°	506.8	494.2	503.3	499.1	498.8
70°	431.6	423.1	435.1	435.1	433.4
72.5°	362.0	361.7	376.6	376.6	377.7
75°	262.8	274.7	290.6	292.4	292.4
77.5°	175.4	196.5	214.1	214.8	214.4
80°	125.3	149.1	165.3	168.8	167.1
82.5°	84.9	110.1	123.6	127.0	125.3
85°	38.3	58.7	69.6	71.3	69.6
87.5°	12.2	26.5	34.7	35.1	31.9
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2



TEST NUMBER: P563097

CATALOG NUMBER: SQ4-PC3-150U-050D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)