

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: P563159

Luminaire Tested: **SQ4-PC3-150U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563159  
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-125D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

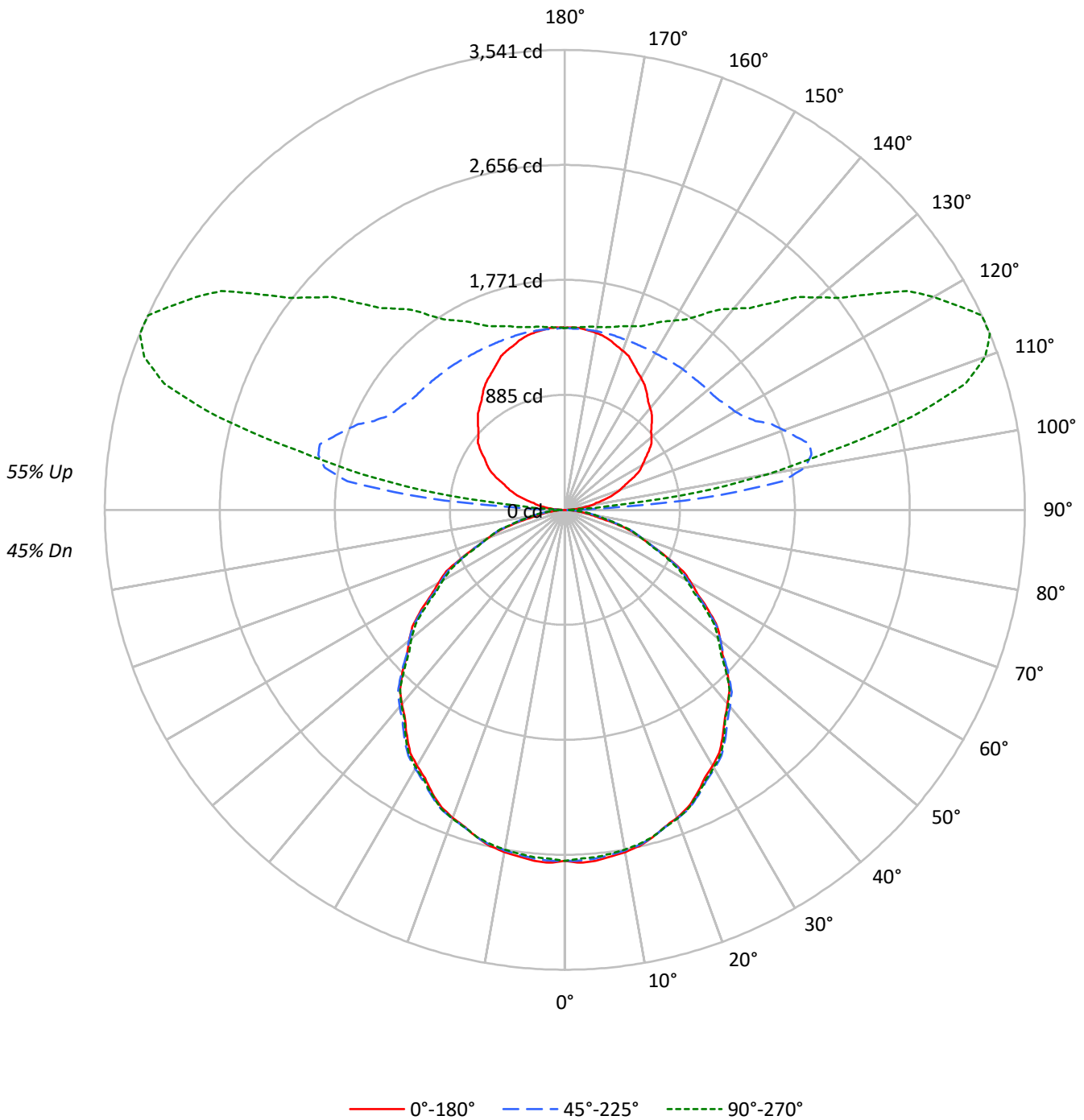
Lumens per Lamp: N/A  
Luminaire Lumens: 16416.2 lumens  
Efficiency: N/A  
Efficacy: 129.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 127.1  
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: P563159  
CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-6

### Luminous Intensity Polar Plot





TEST NUMBER: P563159

CATALOG NUMBER: SQ4-PC3-150U-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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	45°	90°
0°	16626	16626	16626
5°	16751	16643	16582
10°	16711	16633	16585
15°	16623	16623	16607
20°	16514	16563	16563
25°	16358	16477	16426
30°	16159	16354	16283
35°	15918	16163	16049
40°	15655	15876	15715
45°	15370	15479	15240
50°	14969	14969	14729
55°	14493	14305	14091
60°	13794	13517	13300
65°	12749	12495	12385
70°	11163	11252	11207
75°	8981	9934	9993
80°	6383	8423	8512
85°	3889	7064	7064



TEST NUMBER: P563159

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-6

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.8	1.6
10°-20°	734.1	4.5
20°-30°	1111.7	6.8
30°-40°	1332.8	8.1
40°-50°	1359.0	8.3
50°-60°	1186.3	7.2
60°-70°	849.3	5.2
70°-80°	437.5	2.7
80°-90°	113.5	0.7
90°-100°	651.3	4.0
100°-110°	1761.1	10.7
110°-120°	1851.5	11.3
120°-130°	1503.9	9.2
130°-140°	1179.7	7.2
140°-150°	905.4	5.5
150°-160°	651.2	4.0
160°-170°	397.8	2.4
170°-180°	134.1	0.8
0°-30°	2101.7	12.8
0°-40°	3434.5	20.9
0°-60°	5979.9	36.4
0°-90°	7380.2	45.0
90°-120°	4263.9	26.0
90°-150°	7852.9	47.8
90°-180°	9036.0	55.0
0°-180°	16416.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2703	2703	2703	2703	2703	
5°	2713	2686	2696	2688	2686	258
15°	2610	2588	2610	2610	2608	736
25°	2410	2393	2428	2420	2420	1109
35°	2120	2115	2152	2137	2137	1326
45°	1767	1762	1780	1757	1752	1360
55°	1352	1334	1334	1314	1314	1205
65°	876	856	858	851	851	866
75°	378	395	418	420	420	408
85°	55	84	100	103	100	75
90°	3	9	20	21	20	9
95°	101	355	1083	561	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3136	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1389	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	



TEST NUMBER: P563159

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2703.1	2703.1	2703.1	2703.1	2703.1
2.5°	2719.1	2695.6	2703.1	2696.9	2687.1
5°	2713.1	2686.2	2695.6	2688.0	2685.6
7.5°	2693.6	2666.7	2679.1	2674.0	2671.6
10°	2675.6	2648.6	2663.1	2658.0	2655.5
12.5°	2651.5	2626.6	2643.0	2638.0	2637.5
15°	2610.5	2588.5	2610.5	2610.4	2608.0
17.5°	2558.9	2538.9	2562.4	2563.9	2562.4
20°	2522.9	2500.9	2530.4	2528.0	2530.4
22.5°	2478.8	2460.7	2492.4	2485.9	2488.4
25°	2410.3	2393.1	2427.8	2420.3	2420.3
27.5°	2329.2	2316.9	2354.7	2346.7	2346.7
30°	2275.1	2262.9	2302.6	2292.6	2292.6
32.5°	2215.0	2206.7	2244.6	2232.6	2232.6
35°	2119.9	2115.0	2152.5	2137.4	2137.4
37.5°	2021.8	2017.4	2051.4	2033.2	2027.3
40°	1949.7	1947.3	1977.3	1957.2	1957.2
42.5°	1877.7	1875.2	1901.2	1877.2	1877.2
45°	1767.0	1762.1	1779.5	1756.9	1752.0
47.5°	1646.4	1641.5	1652.4	1627.8	1625.4
50°	1564.3	1559.4	1564.3	1541.7	1539.3
52.5°	1480.2	1471.4	1472.2	1449.6	1449.2
55°	1351.5	1334.4	1334.0	1314.0	1314.0
57.5°	1215.4	1192.9	1194.9	1177.8	1175.3
60°	1121.3	1096.8	1098.8	1083.7	1081.2
62.5°	1029.2	1000.8	1006.7	989.6	989.1
65°	876.0	856.4	858.5	851.0	851.0
67.5°	728.8	710.7	723.8	717.8	717.3
70°	620.7	608.5	625.7	625.7	623.2
72.5°	520.6	520.1	541.6	541.7	543.1
75°	377.9	395.1	418.0	420.5	420.5
77.5°	252.3	282.6	307.9	308.8	308.4
80°	180.2	214.5	237.8	242.7	240.3
82.5°	122.1	158.4	177.7	182.7	180.2
85°	55.1	84.4	100.1	102.6	100.1
87.5°	16.6	35.4	44.0	44.2	40.0
90°	3.0	8.9	19.6	21.1	19.6
92.5°	42.8	156.1	308.1	133.7	96.9
95°	101.1	354.8	1083.2	560.6	333.4
97.5°	162.3	406.9	1688.4	1397.3	1026.2
100°	208.2	428.0	1876.7	1957.2	1582.5
102.5°	250.4	457.2	1943.1	2381.7	2101.5
105°	327.4	505.9	1953.6	2881.8	2763.8
107.5°	398.6	561.4	1868.3	3193.7	3232.9
110°	454.1	601.6	1792.2	3277.5	3444.1



TEST NUMBER: P563159

CATALOG NUMBER: SQ4-PC3-150U-125D-835-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.5	3540.7
117.5°	647.5	767.9	1553.0	2946.8	3404.9
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.6	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.6
130°	870.5	987.0	1436.2	2199.8	2542.0
132.5°	900.6	1016.0	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.8	2252.3
137.5°	991.5	1097.4	1414.5	1893.3	2107.2
140°	1022.8	1121.7	1412.1	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.8	1182.4	1401.5	1703.1	1833.0
147.5°	1142.3	1215.5	1394.9	1637.9	1737.6
150°	1173.7	1238.6	1392.4	1602.4	1682.1
152.5°	1202.7	1259.3	1391.2	1569.5	1635.0
155°	1241.6	1290.3	1389.4	1527.8	1578.0
157.5°	1282.0	1315.9	1389.7	1498.8	1531.8
160°	1304.9	1333.0	1390.9	1480.5	1504.1
162.5°	1323.0	1346.3	1392.1	1465.9	1483.6
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.3	1380.5	1395.8	1436.3	1439.8
170°	1383.4	1387.8	1397.0	1430.2	1430.2
172.5°	1393.0	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.1
177.5°	1406.3	1402.8	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)