

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: P564503

Luminaire Tested: **SQ4-PR1-150U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564503
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

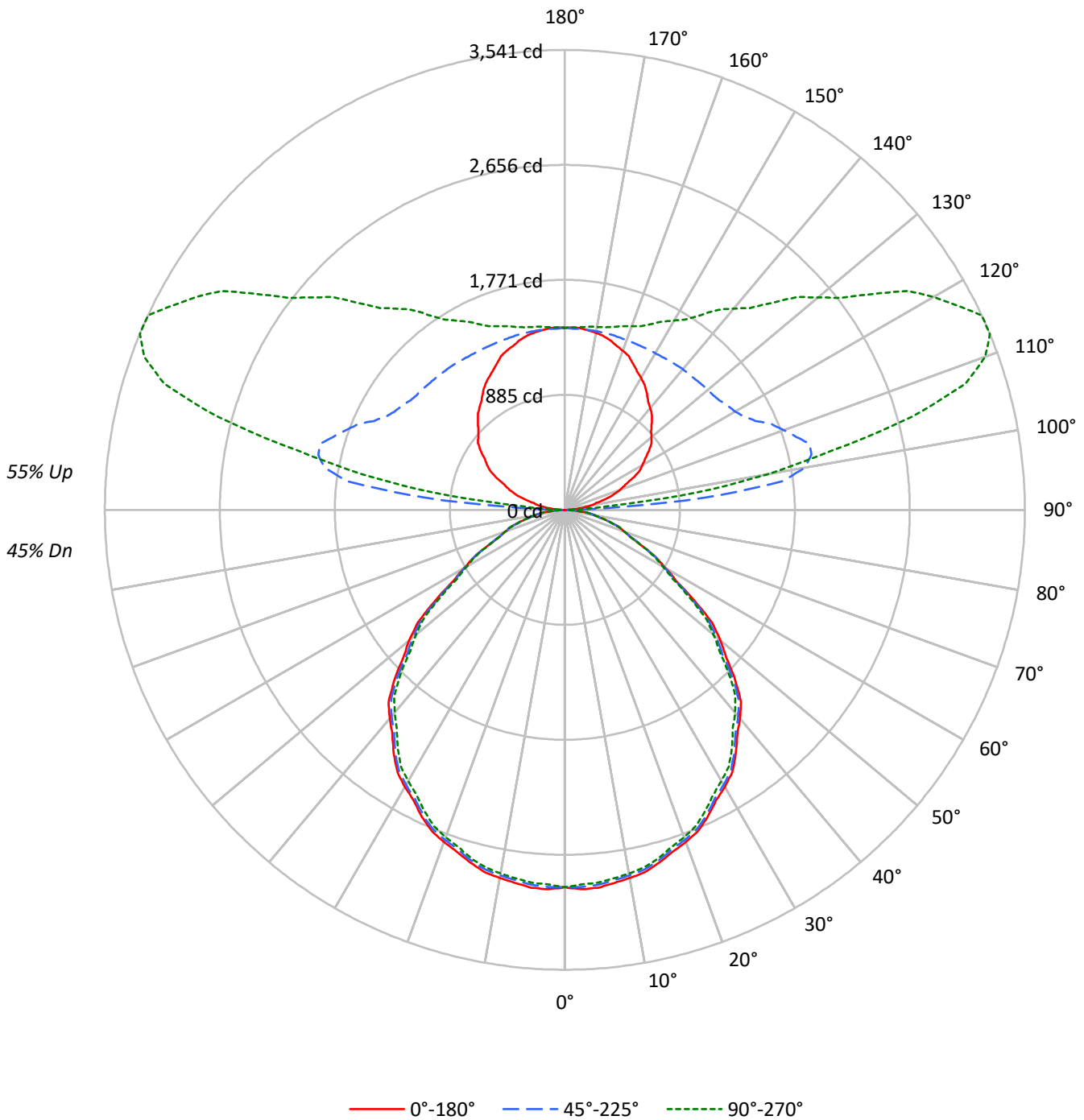
Lumens per Lamp: N/A
Luminaire Lumens: 16303.1 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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: P564503
CATALOG NUMBER: SQ4-PR1-150U-125D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P564503

CATALOG NUMBER: SQ4-PR1-150U-125D-835-1D-UNV-STD-W-6

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	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	75	69	65	62	59	55	51	48	46	40	39	37	32		
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28		
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24		
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21		
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18		
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16		
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15		
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13		
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17119
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15544
50°	14945	14585	14298
55°	13044	12749	12480
60°	10991	10899	10684
65°	9507	9543	9470
70°	8733	8778	8778
75°	8387	8387	8446
80°	7892	7980	7892
85°	6359	7064	7064



TEST NUMBER: P564503

CATALOG NUMBER: SQ4-PR1-150U-125D-835-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.7
10°-20°	786.2	4.8
20°-30°	1185.8	7.3
30°-40°	1412.9	8.7
40°-50°	1393.0	8.5
50°-60°	1064.6	6.5
60°-70°	658.8	4.0
70°-80°	374.2	2.3
80°-90°	116.8	0.7
90°-100°	651.3	4.0
100°-110°	1761.1	10.8
110°-120°	1851.5	11.4
120°-130°	1503.9	9.2
130°-140°	1179.7	7.2
140°-150°	905.4	5.6
150°-160°	651.2	4.0
160°-170°	397.8	2.4
170°-180°	134.1	0.8
0°-30°	2246.8	13.8
0°-40°	3659.7	22.4
0°-60°	6117.4	37.5
0°-90°	7267.2	44.6
90°-120°	4263.9	26.2
90°-150°	7852.9	48.2
90°-180°	9036.0	55.4
0°-180°	16303.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2906	2906	2906	2906	2906	
5°	2921	2889	2898	2888	2883	277
15°	2811	2781	2793	2783	2778	793
25°	2606	2574	2588	2560	2558	1199
35°	2295	2268	2275	2245	2243	1432
45°	1857	1833	1825	1792	1787	1423
55°	1216	1197	1189	1169	1164	1090
65°	653	648	656	651	651	662
75°	353	353	353	355	355	373
85°	90	95	100	100	100	105
90°	3	9	20	21	20	10
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: P564503

CATALOG NUMBER: SQ4-PR1-150U-125D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2905.8	2905.8	2905.8	2905.8	2905.8
2.5°	2923.8	2898.4	2905.8	2899.5	2885.8
5°	2920.8	2889.0	2898.3	2888.2	2883.3
7.5°	2898.3	2867.0	2876.3	2866.2	2863.3
10°	2878.3	2848.9	2858.3	2848.1	2843.3
12.5°	2856.3	2824.9	2836.2	2824.1	2819.2
15°	2810.7	2781.3	2793.2	2783.1	2778.2
17.5°	2760.7	2729.3	2741.1	2729.5	2723.1
20°	2720.6	2691.2	2703.1	2685.5	2683.1
22.5°	2676.6	2647.2	2659.0	2635.5	2635.0
25°	2605.5	2573.7	2588.0	2560.4	2557.9
27.5°	2520.9	2491.5	2503.4	2475.3	2472.3
30°	2462.8	2433.4	2445.3	2415.2	2410.3
32.5°	2396.7	2369.3	2379.2	2349.1	2346.2
35°	2295.1	2268.2	2275.1	2245.0	2242.6
37.5°	2179.5	2155.0	2159.0	2125.9	2123.4
40°	2097.4	2072.9	2074.9	2039.8	2037.3
42.5°	2007.3	1982.8	1980.8	1945.7	1943.2
45°	1857.1	1832.7	1824.6	1791.9	1787.0
47.5°	1685.9	1661.5	1646.4	1619.8	1616.3
50°	1561.8	1537.3	1524.2	1501.6	1494.2
52.5°	1427.6	1403.2	1392.1	1371.4	1364.1
55°	1216.4	1196.8	1188.9	1168.7	1163.8
57.5°	1015.7	1002.4	1000.1	980.6	978.6
60°	893.5	886.2	886.0	868.5	868.5
62.5°	789.4	784.0	787.9	776.3	774.4
65°	653.2	648.4	655.7	650.7	650.7
67.5°	545.6	545.6	550.1	548.1	548.1
70°	485.6	485.6	488.1	488.1	488.1
72.5°	431.5	429.5	436.0	436.0	434.0
75°	352.9	352.9	352.9	355.4	355.4
77.5°	274.8	275.3	277.3	276.8	274.8
80°	222.8	225.2	225.3	222.8	222.8
82.5°	170.7	173.1	173.2	172.7	170.7
85°	90.1	95.0	100.1	100.1	100.1
87.5°	26.6	35.6	44.0	44.2	42.0
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: P564503

CATALOG NUMBER: SQ4-PR1-150U-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)