

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: P563831

Luminaire Tested: **SQ4-PP3-150U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563831
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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

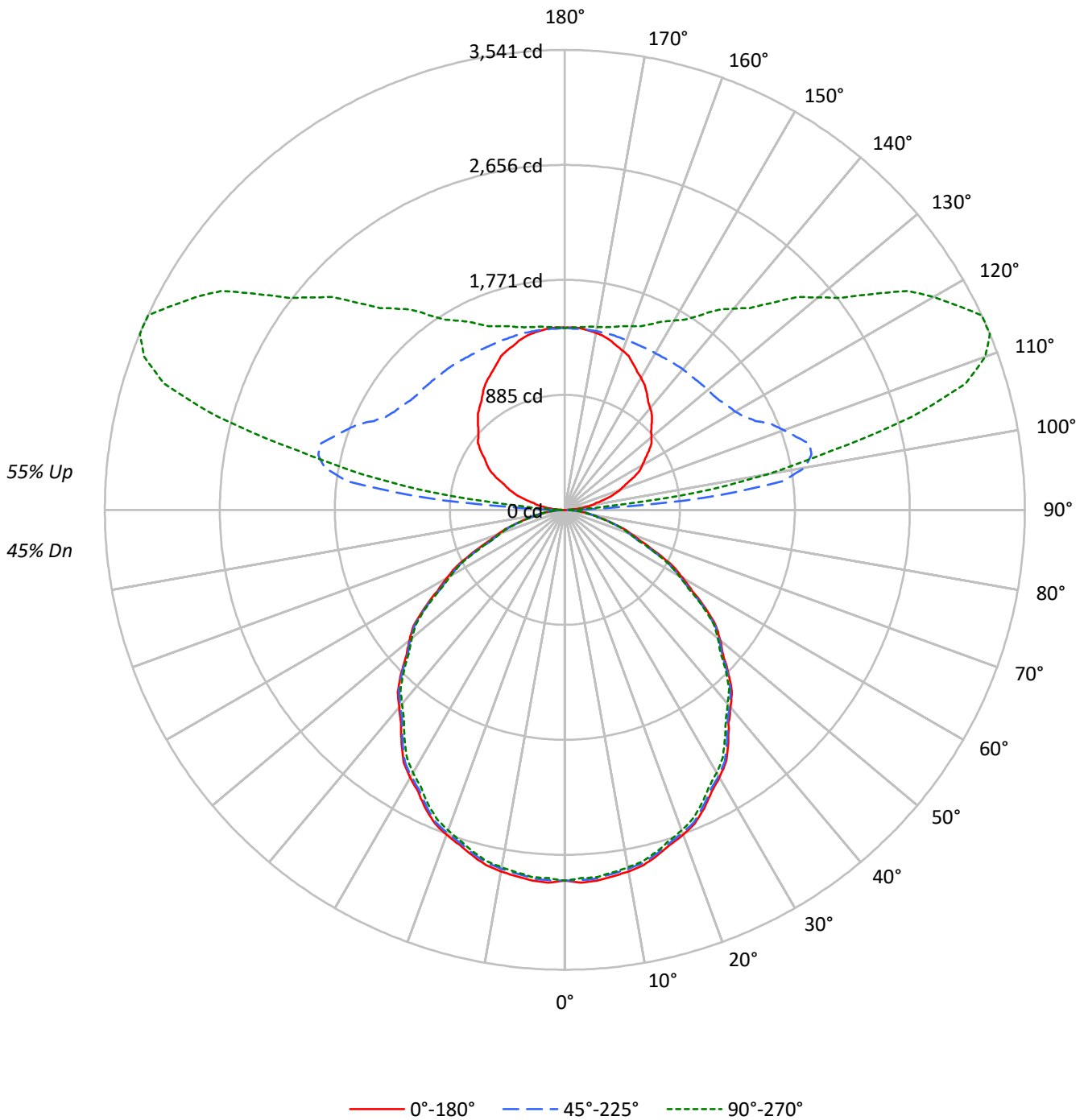
Lumens per Lamp: N/A
Luminaire Lumens: 16346.3 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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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°	17561	17561	17561
5°	17690	17582	17520
10°	17660	17535	17457
15°	17543	17448	17352
20°	17427	17329	17198
25°	17220	17101	16931
30°	16901	16813	16599
35°	16459	16347	16140
40°	15933	15832	15652
45°	15497	15389	15236
50°	14941	14845	14702
55°	14168	13980	13873
60°	12898	12528	12466
65°	11362	10889	10853
70°	9810	9405	9405
75°	8444	8325	8206
80°	7446	7534	7357
85°	5829	6359	6359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	1.7
10°-20°	770.9	4.7
20°-30°	1154.7	7.1
30°-40°	1354.4	8.3
40°-50°	1358.6	8.3
50°-60°	1159.0	7.1
60°-70°	755.9	4.6
70°-80°	379.2	2.3
80°-90°	107.9	0.7
90°-100°	651.3	4.0
100°-110°	1761.1	10.8
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°	2195.5	13.4
0°-40°	3549.9	21.7
0°-60°	6067.5	37.1
0°-90°	7310.4	44.7
90°-120°	4263.9	26.1
90°-150°	7852.9	48.0
90°-180°	9036.0	55.3
0°-180°	16346.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2855	2855	2855	2855	2855	
5°	2865	2838	2848	2838	2838	272
15°	2755	2728	2740	2730	2725	777
25°	2537	2508	2520	2497	2495	1167
35°	2192	2170	2177	2152	2150	1369
45°	1782	1769	1769	1752	1752	1372
55°	1321	1316	1304	1296	1294	1174
65°	781	766	748	743	746	779
75°	355	355	350	348	345	385
85°	83	90	90	90	90	97
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2855.1	2855.1	2855.1	2855.1	2855.1
2.5°	2873.1	2849.6	2855.1	2850.8	2839.1
5°	2865.1	2838.2	2847.6	2837.6	2837.6
7.5°	2845.6	2816.2	2825.6	2815.5	2815.1
10°	2827.6	2798.2	2807.6	2797.5	2795.0
12.5°	2801.5	2772.2	2783.5	2771.5	2771.0
15°	2755.0	2728.1	2740.0	2729.9	2725.0
17.5°	2702.5	2673.1	2687.4	2673.4	2671.4
20°	2662.4	2633.1	2647.4	2627.4	2627.4
22.5°	2614.4	2585.0	2601.4	2575.3	2575.3
25°	2537.3	2507.9	2519.8	2497.2	2494.8
27.5°	2445.7	2416.9	2429.2	2403.7	2403.2
30°	2379.7	2352.7	2367.2	2339.6	2337.1
32.5°	2307.6	2282.6	2293.1	2265.5	2263.1
35°	2192.0	2170.0	2177.0	2151.9	2149.5
37.5°	2070.4	2047.9	2055.9	2034.3	2033.3
40°	1984.3	1969.6	1971.8	1954.2	1949.3
42.5°	1904.2	1887.6	1889.7	1872.2	1871.2
45°	1781.6	1769.4	1769.1	1751.6	1751.6
47.5°	1651.5	1642.2	1639.5	1625.0	1624.5
50°	1561.4	1554.1	1551.4	1538.8	1536.4
52.5°	1467.3	1463.9	1455.3	1444.8	1444.3
55°	1321.2	1316.3	1303.7	1296.1	1293.7
57.5°	1162.6	1152.8	1138.5	1127.6	1129.5
60°	1048.5	1038.7	1018.4	1013.4	1013.4
62.5°	938.4	926.6	906.3	899.4	903.3
65°	780.7	766.0	748.2	743.2	745.7
67.5°	637.6	624.4	605.1	605.0	603.0
70°	545.5	538.2	523.0	523.0	523.0
72.5°	463.4	460.0	448.9	448.9	446.9
75°	355.3	355.3	350.3	347.8	345.3
77.5°	266.2	267.2	264.7	262.1	257.7
80°	210.2	215.1	212.7	210.1	207.7
82.5°	158.1	163.0	162.6	158.1	157.6
85°	82.6	89.9	90.1	90.1	90.1
87.5°	22.6	31.6	36.0	36.3	38.0
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



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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)