

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: P565175

Luminaire Tested: **SQ4-PW1-150U-125D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565175
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-125D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

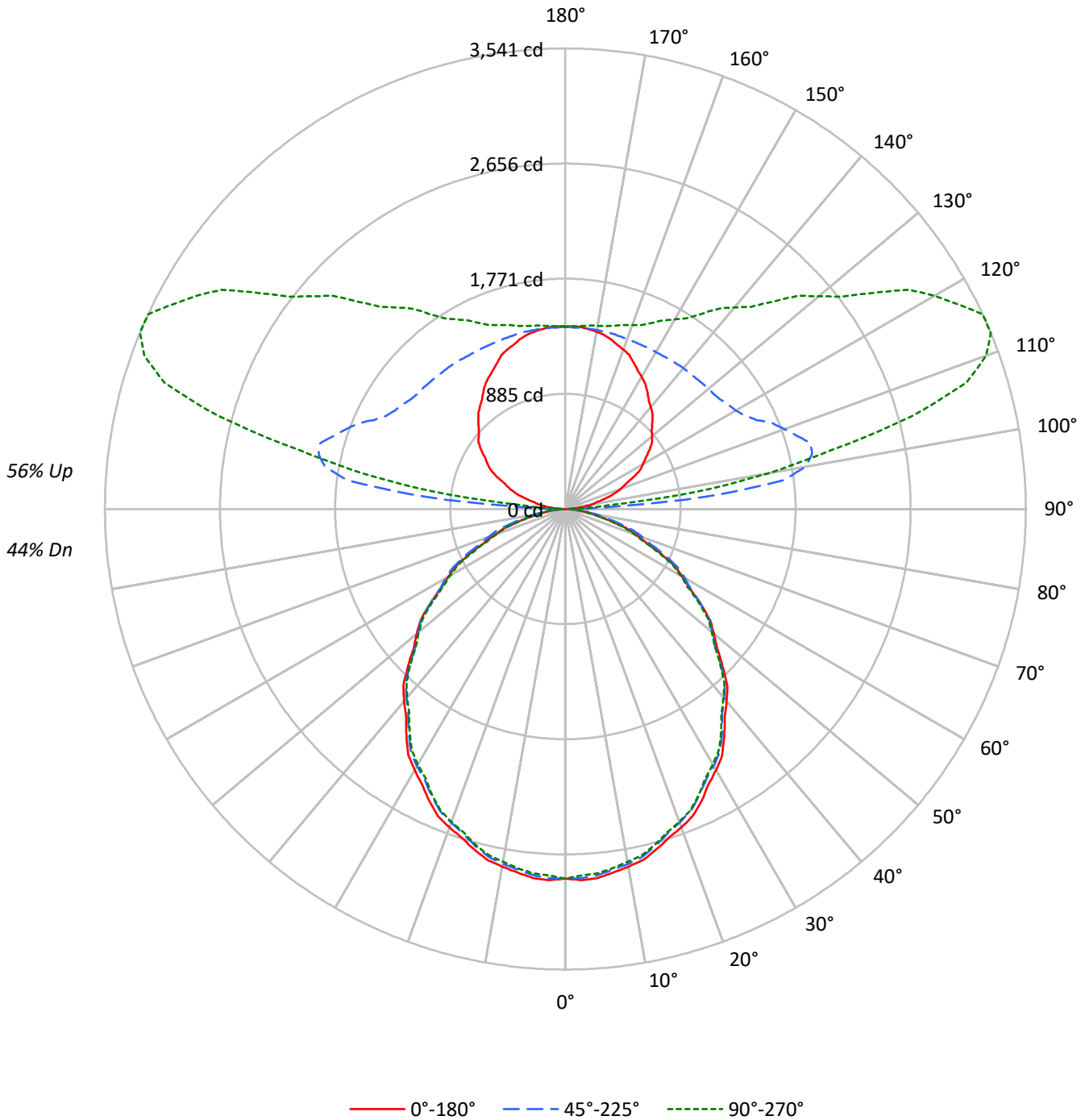
Lumens per Lamp: N/A
Luminaire Lumens: 16266.5 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17473	17473	17473
5°	17586	17447	17370
10°	17445	17305	17211
15°	17261	17069	17006
20°	17054	16792	16759
25°	16816	16511	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14892	14695	14630
50°	14274	14154	14059
55°	13608	13608	13393
60°	12778	13024	12562
65°	11693	12276	11402
70°	10308	11297	10037
75°	8803	10112	8565
80°	6826	8512	6914
85°	4418	6535	5829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	1.6
10°-20°	755.2	4.6
20°-30°	1120.3	6.9
30°-40°	1310.8	8.1
40°-50°	1305.0	8.0
50°-60°	1126.9	6.9
60°-70°	811.2	5.0
70°-80°	425.4	2.6
80°-90°	108.4	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	7.3
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°	2143.0	13.2
0°-40°	3453.8	21.2
0°-60°	5885.6	36.2
0°-90°	7230.5	44.5
90°-120°	4263.9	26.2
90°-150°	7852.9	48.3
90°-180°	9036.0	55.5
0°-180°	16266.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2841	2841	2841	2841	2841	
5°	2848	2816	2826	2818	2813	270
15°	2711	2676	2681	2676	2671	764
25°	2478	2436	2433	2418	2425	1139
35°	2130	2101	2100	2080	2087	1332
45°	1712	1697	1689	1684	1682	1321
55°	1269	1266	1269	1251	1249	1132
65°	803	828	844	810	783	796
75°	370	405	426	397	360	397
85°	63	82	93	88	83	83
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2840.8	2840.8	2840.8	2840.8	2840.8
2.5°	2856.8	2833.3	2840.8	2834.4	2820.7
5°	2848.3	2816.5	2825.7	2818.1	2813.2
7.5°	2819.2	2789.9	2796.7	2788.6	2785.7
10°	2793.2	2763.8	2770.7	2760.6	2755.7
12.5°	2763.2	2731.8	2738.6	2728.6	2725.6
15°	2710.6	2676.3	2680.6	2675.5	2670.6
17.5°	2649.5	2614.8	2615.5	2607.5	2606.5
20°	2605.5	2568.8	2565.4	2555.5	2560.4
22.5°	2557.4	2518.8	2515.4	2501.5	2508.4
25°	2477.8	2436.2	2432.8	2417.9	2425.3
27.5°	2385.7	2344.6	2344.7	2323.8	2331.7
30°	2317.7	2278.5	2282.6	2257.8	2267.6
32.5°	2245.6	2210.3	2212.5	2187.7	2197.5
35°	2129.9	2100.6	2099.9	2080.1	2087.4
37.5°	2011.8	1985.9	1981.8	1970.3	1972.3
40°	1929.7	1907.7	1899.7	1892.2	1892.2
42.5°	1843.6	1823.5	1815.6	1810.0	1808.1
45°	1712.0	1697.3	1689.4	1684.4	1681.9
47.5°	1581.8	1568.1	1561.3	1557.7	1555.3
50°	1491.7	1481.9	1479.2	1471.6	1469.2
52.5°	1401.6	1395.7	1393.1	1383.5	1381.1
55°	1269.0	1266.5	1269.0	1251.4	1248.9
57.5°	1130.8	1134.7	1142.8	1119.1	1113.3
60°	1038.7	1048.5	1058.7	1031.0	1021.2
62.5°	944.6	960.2	974.6	942.8	929.1
65°	803.4	827.9	843.5	810.3	783.4
67.5°	667.3	697.6	716.3	680.6	650.2
70°	573.2	607.4	628.2	592.4	558.1
72.5°	491.1	529.2	546.1	512.3	478.0
75°	370.4	404.7	425.5	397.1	360.4
77.5°	262.8	295.1	312.4	287.6	257.3
80°	192.7	227.0	240.3	219.7	195.2
82.5°	136.7	165.0	174.2	161.8	145.2
85°	62.6	82.1	92.6	87.5	82.6
87.5°	16.6	31.5	42.0	42.3	44.0
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)