

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: P563816

Luminaire Tested: **SQ4-PP3-150U-100D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563816
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-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

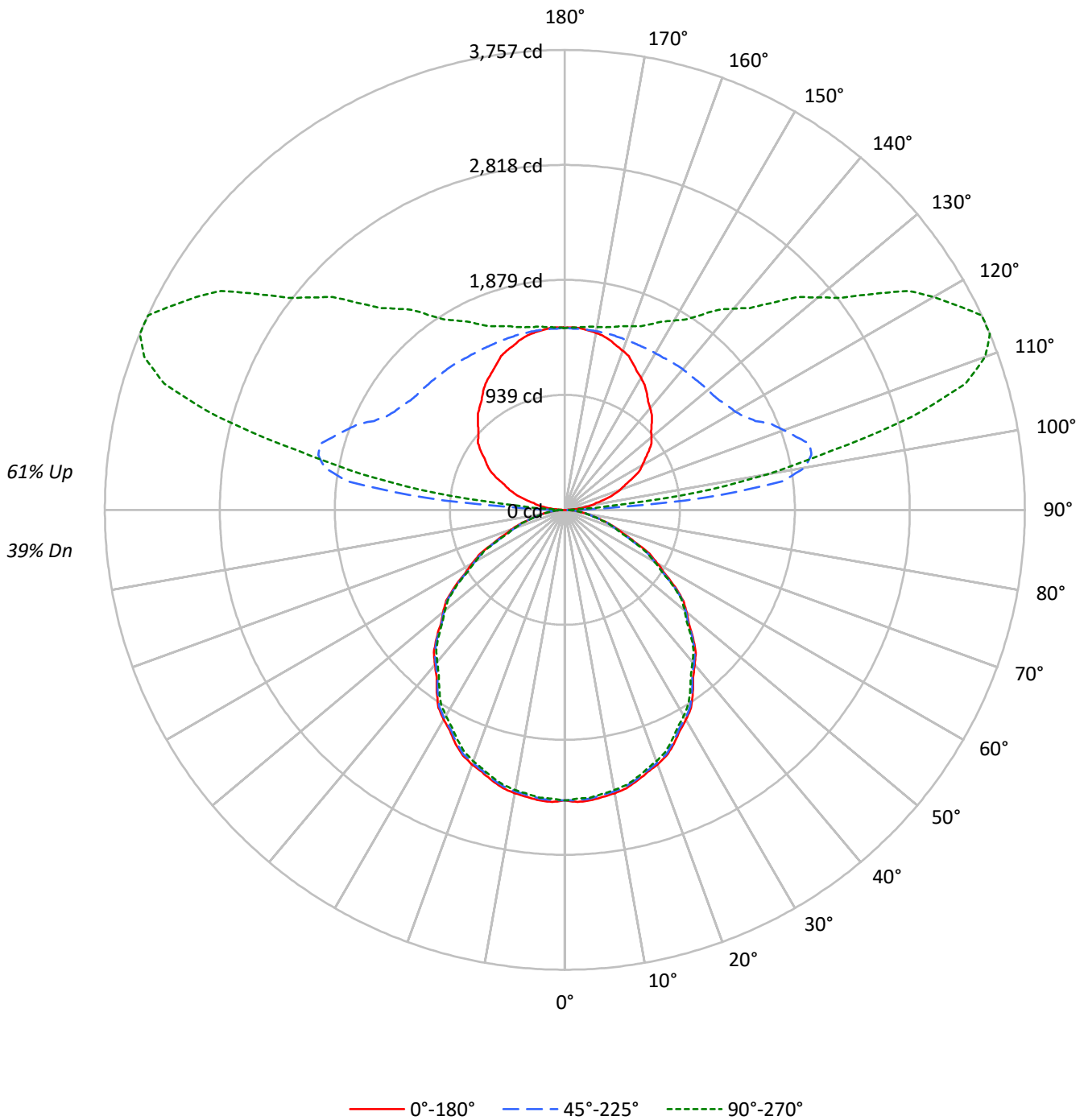
Lumens per Lamp: N/A
Luminaire Lumens: 15665.9 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 148.4
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	60	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	73	62	54	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	26	23	21	18
6	61	50	42	36	56	45	38	33	38	32	28	30	26	24	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10963	10925
10°	11012	10934	10886
15°	10940	10880	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10539	10484	10350
35°	10264	10193	10064
40°	9935	9872	9760
45°	9664	9596	9501
50°	9317	9257	9168
55°	8835	8717	8651
60°	8042	7812	7774
65°	7085	6791	6768
70°	6117	5864	5864
75°	5265	5192	5117
80°	4644	4697	4588
85°	3636	3964	3964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	1.4
10°-20°	640.9	4.1
20°-30°	960.0	6.1
30°-40°	1126.0	7.2
40°-50°	1129.6	7.2
50°-60°	963.6	6.2
60°-70°	628.4	4.0
70°-80°	315.3	2.0
80°-90°	90.4	0.6
90°-100°	691.1	4.4
100°-110°	1868.5	11.9
110°-120°	1964.4	12.5
120°-130°	1595.6	10.2
130°-140°	1251.7	8.0
140°-150°	960.7	6.1
150°-160°	690.9	4.4
160°-170°	422.1	2.7
170°-180°	142.3	0.9
0°-30°	1825.4	11.7
0°-40°	2951.4	18.8
0°-60°	5044.6	32.2
0°-90°	6078.7	38.8
90°-120°	4524.0	28.9
90°-150°	8331.9	53.2
90°-180°	9587.0	61.2
0°-180°	15665.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2382	2360	2368	2359	2359	226
15°	2291	2268	2278	2270	2266	646
25°	2110	2085	2095	2076	2074	970
35°	1822	1804	1810	1789	1787	1138
45°	1481	1471	1471	1456	1456	1141
55°	1098	1094	1084	1078	1076	976
65°	649	637	622	618	620	648
75°	295	295	291	289	287	321
85°	69	75	75	75	75	81
90°	3	10	21	22	21	10
95°	107	376	1149	595	354	112
105°	347	537	2073	3058	2932	366
115°	611	748	1719	3328	3757	604
125°	837	959	1549	2615	3072	746
135°	1004	1122	1508	2111	2390	776
145°	1167	1254	1487	1807	1945	730
155°	1317	1369	1474	1621	1674	608
165°	1434	1448	1481	1538	1546	404
175°	1489	1487	1482	1501	1498	141
180°	1487	1487	1487	1487	1487	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2373.8	2373.8	2373.8	2373.8	2373.8
2.5°	2388.8	2369.2	2373.8	2370.2	2360.5
5°	2382.1	2359.7	2367.5	2359.2	2359.2
7.5°	2365.9	2341.5	2349.2	2340.9	2340.5
10°	2350.9	2326.5	2334.3	2325.9	2323.9
12.5°	2329.3	2304.9	2314.3	2304.3	2303.9
15°	2290.6	2268.2	2278.1	2269.7	2265.6
17.5°	2246.9	2222.5	2234.4	2222.7	2221.1
20°	2213.6	2189.2	2201.1	2184.5	2184.5
22.5°	2173.7	2149.2	2162.8	2141.2	2141.2
25°	2109.6	2085.2	2095.0	2076.2	2074.2
27.5°	2033.4	2009.4	2019.7	1998.5	1998.1
30°	1978.5	1956.1	1968.1	1945.2	1943.1
32.5°	1918.6	1897.8	1906.5	1883.6	1881.6
35°	1822.5	1804.2	1810.0	1789.1	1787.1
37.5°	1721.4	1702.6	1709.3	1691.4	1690.6
40°	1649.8	1637.6	1639.4	1624.7	1620.7
42.5°	1583.2	1569.4	1571.2	1556.6	1555.8
45°	1481.3	1471.1	1470.9	1456.3	1456.3
47.5°	1373.1	1365.4	1363.1	1351.0	1350.6
50°	1298.2	1292.1	1289.9	1279.4	1277.4
52.5°	1220.0	1217.1	1210.0	1201.2	1200.8
55°	1098.5	1094.4	1083.9	1077.6	1075.6
57.5°	966.6	958.4	946.6	937.5	939.1
60°	871.7	863.6	846.7	842.6	842.6
62.5°	780.2	770.4	753.5	747.8	751.0
65°	649.1	636.9	622.1	617.9	620.0
67.5°	530.1	519.1	503.1	503.0	501.4
70°	453.5	447.4	434.8	434.8	434.8
72.5°	385.3	382.5	373.2	373.2	371.6
75°	295.4	295.4	291.3	289.1	287.1
77.5°	221.4	222.2	220.1	217.9	214.3
80°	174.8	178.8	176.8	174.7	172.7
82.5°	131.5	135.6	135.2	131.5	131.1
85°	68.7	74.8	74.9	74.9	74.9
87.5°	18.9	26.7	30.8	31.1	32.5
90°	3.2	9.5	20.8	22.4	20.8
92.5°	45.5	165.7	326.8	141.9	102.8
95°	107.2	376.4	1149.3	594.8	353.7
97.5°	172.2	431.7	1791.4	1482.5	1088.8
100°	220.9	454.1	1991.2	2076.6	1679.1
102.5°	265.7	485.1	2061.6	2527.0	2229.7
105°	347.3	536.7	2072.8	3057.6	2932.4
107.5°	422.9	595.7	1982.2	3388.5	3430.2
110°	481.8	638.3	1901.6	3477.4	3654.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.3	680.8	1827.3	3459.6	3756.7
115°	611.4	747.6	1719.1	3327.9	3756.7
117.5°	687.0	814.7	1647.7	3126.5	3612.6
120°	733.1	858.3	1605.4	2982.1	3478.2
122.5°	776.6	899.3	1579.8	2827.2	3327.1
125°	837.1	959.2	1549.4	2614.6	3071.6
127.5°	892.8	1012.7	1531.5	2441.1	2843.0
130°	923.6	1047.2	1523.8	2334.0	2697.1
132.5°	955.6	1078.0	1516.1	2237.3	2571.6
135°	1003.6	1122.5	1507.8	2111.2	2389.7
137.5°	1051.9	1164.3	1500.8	2008.8	2235.8
140°	1085.2	1190.1	1498.2	1943.0	2144.9
142.5°	1117.2	1215.8	1493.1	1883.5	2060.3
145°	1166.9	1254.5	1487.0	1807.0	1944.8
147.5°	1212.0	1289.6	1479.9	1737.8	1843.6
150°	1245.3	1314.2	1477.4	1700.2	1784.7
152.5°	1276.0	1336.1	1476.1	1665.3	1734.8
155°	1317.3	1369.0	1474.2	1621.1	1674.3
157.5°	1360.2	1396.2	1474.5	1590.2	1625.3
160°	1384.5	1414.3	1475.8	1570.8	1595.8
162.5°	1403.8	1428.5	1477.1	1555.3	1574.1
165°	1434.2	1448.3	1480.6	1538.4	1546.2
167.5°	1455.0	1464.7	1480.9	1523.9	1527.6
170°	1467.8	1472.5	1482.2	1517.4	1517.4
172.5°	1478.0	1479.0	1482.2	1509.7	1508.4
175°	1488.6	1487.0	1482.2	1501.3	1498.2
177.5°	1492.1	1488.4	1481.9	1494.6	1490.8
180°	1487.0	1487.0	1487.0	1487.0	1487.0

(END OF REPORT)