

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: P563769

Luminaire Tested: **SQ4-PP3-150U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563769
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-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20788.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

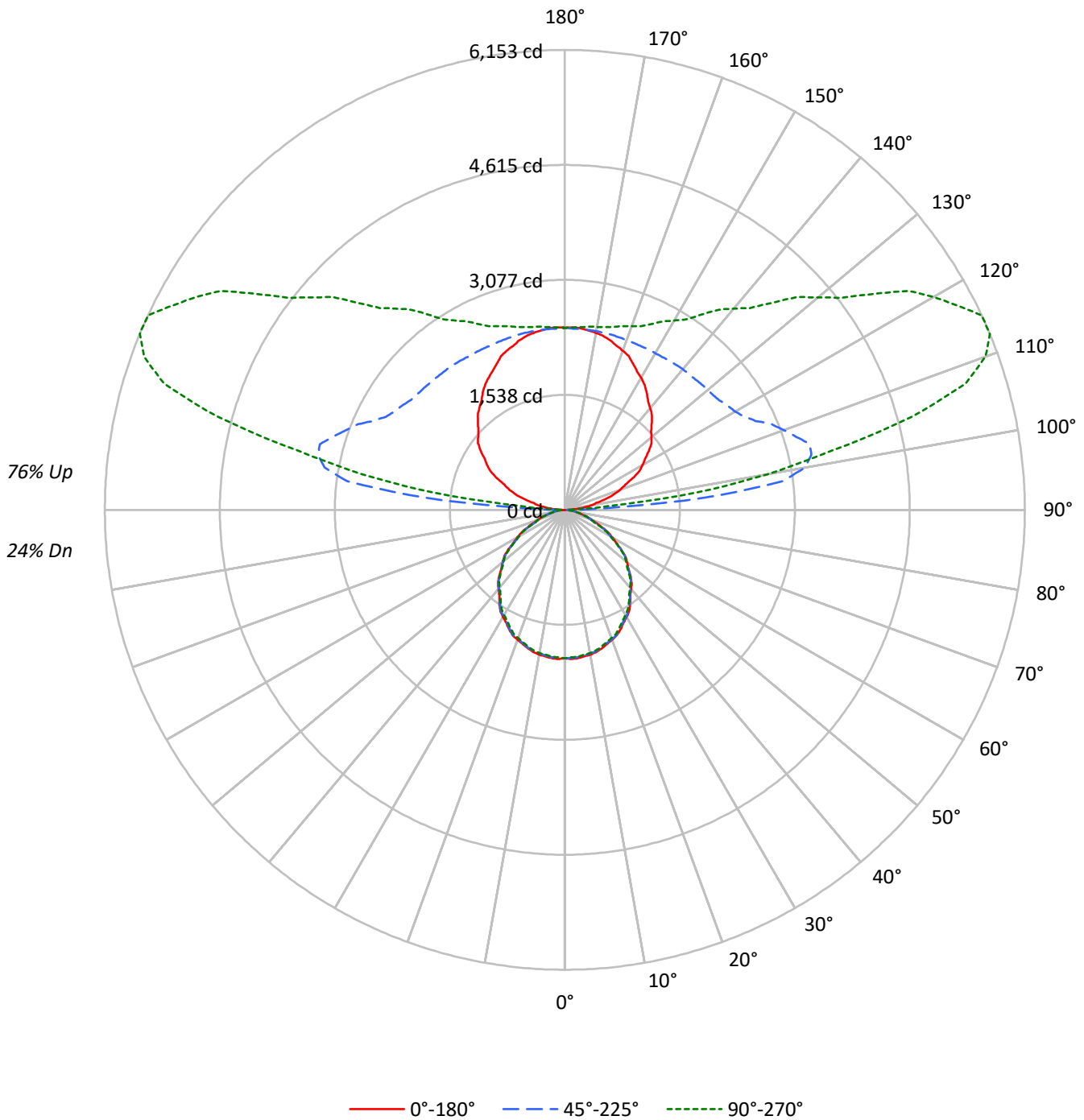
Input Watts (W): 168.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24				
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18				
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9				
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6151	6113	6091
10°	6140	6097	6070
15°	6099	6066	6033
20°	6059	6025	5979
25°	5987	5946	5887
30°	5876	5845	5771
35°	5722	5683	5611
40°	5539	5504	5441
45°	5388	5350	5297
50°	5195	5161	5111
55°	4926	4860	4823
60°	4485	4356	4334
65°	3951	3786	3773
70°	3411	3270	3270
75°	2936	2895	2853
80°	2589	2619	2557
85°	2025	2209	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	0.9
10°-20°	536.0	2.6
20°-30°	802.9	3.9
30°-40°	941.8	4.5
40°-50°	944.7	4.5
50°-60°	805.9	3.9
60°-70°	525.6	2.5
70°-80°	263.7	1.3
80°-90°	78.1	0.4
90°-100°	1131.9	5.4
100°-110°	3060.3	14.7
110°-120°	3217.5	15.5
120°-130°	2613.5	12.6
130°-140°	2050.0	9.9
140°-150°	1573.4	7.6
150°-160°	1131.6	5.4
160°-170°	691.3	3.3
170°-180°	233.1	1.1
0°-30°	1526.7	7.3
0°-40°	2468.4	11.9
0°-60°	4219.1	20.3
0°-90°	5086.4	24.5
90°-120°	7409.7	35.6
90°-150°	13646.6	65.6
90°-180°	15703.0	75.5
0°-180°	20788.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1992	1974	1980	1973	1973	189
15°	1916	1897	1905	1898	1895	540
25°	1764	1744	1752	1736	1735	811
35°	1524	1509	1514	1496	1495	952
45°	1239	1230	1230	1218	1218	954
55°	919	915	906	901	900	816
65°	543	533	520	517	518	542
75°	247	247	244	242	240	268
85°	57	62	63	63	63	68
90°	5	16	34	37	34	14
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1985.3	1985.3	1985.3	1985.3	1985.3
2.5°	1997.8	1981.5	1985.3	1982.3	1974.2
5°	1992.3	1973.6	1980.1	1973.1	1973.1
7.5°	1978.7	1958.3	1964.8	1957.8	1957.5
10°	1966.2	1945.8	1952.3	1945.3	1943.6
12.5°	1948.1	1927.7	1935.6	1927.2	1926.9
15°	1915.7	1897.0	1905.3	1898.2	1894.8
17.5°	1879.2	1858.8	1868.7	1859.0	1857.6
20°	1851.3	1830.9	1840.9	1827.0	1827.0
22.5°	1817.9	1797.5	1808.9	1790.8	1790.8
25°	1764.3	1743.9	1752.2	1736.5	1734.8
27.5°	1700.7	1680.6	1689.2	1671.4	1671.1
30°	1654.7	1636.0	1646.0	1626.8	1625.1
32.5°	1604.6	1587.3	1594.5	1575.3	1573.6
35°	1524.2	1508.9	1513.8	1496.3	1494.6
37.5°	1439.7	1424.0	1429.6	1414.6	1413.9
40°	1379.8	1369.6	1371.1	1358.8	1355.4
42.5°	1324.1	1312.6	1314.0	1301.8	1301.2
45°	1238.9	1230.4	1230.2	1218.0	1218.0
47.5°	1148.4	1141.9	1140.0	1129.9	1129.6
50°	1085.7	1080.6	1078.8	1070.0	1068.3
52.5°	1020.3	1017.9	1012.0	1004.7	1004.3
55°	918.7	915.3	906.5	901.3	899.6
57.5°	808.4	801.6	791.7	784.1	785.4
60°	729.1	722.2	708.2	704.7	704.7
62.5°	652.5	644.3	630.2	625.4	628.1
65°	542.9	532.7	520.3	516.8	518.5
67.5°	443.3	434.2	420.7	420.7	419.3
70°	379.3	374.2	363.7	363.7	363.7
72.5°	322.2	319.9	312.2	312.1	310.8
75°	247.1	247.1	243.6	241.8	240.1
77.5°	185.1	185.8	184.1	182.3	179.2
80°	146.2	149.6	147.9	146.1	144.4
82.5°	110.0	113.4	113.1	110.0	109.6
85°	57.4	62.5	62.6	62.6	62.6
87.5°	16.4	23.9	29.1	29.6	30.5
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)