

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: P563673

Luminaire Tested: **SQ4-PP3-125U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563673
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

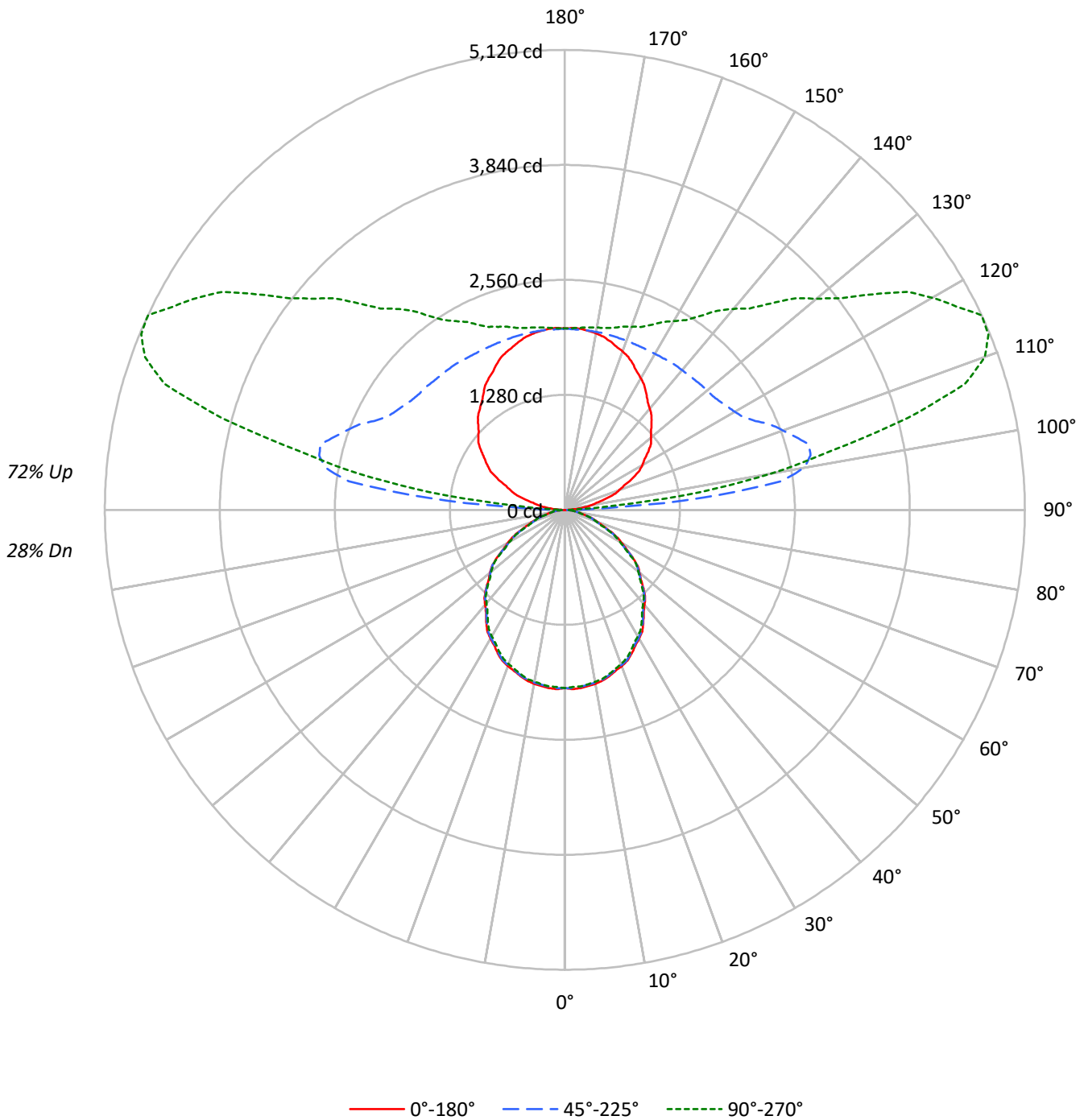
Lumens per Lamp: N/A
Luminaire Lumens: 18117.7 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 146.4
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

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	1.0
10°-20°	536.0	3.0
20°-30°	802.9	4.4
30°-40°	941.8	5.2
40°-50°	944.7	5.2
50°-60°	805.9	4.4
60°-70°	525.6	2.9
70°-80°	263.7	1.5
80°-90°	77.7	0.4
90°-100°	944.3	5.2
100°-110°	2543.8	14.0
110°-120°	2669.6	14.7
120°-130°	2166.3	12.0
130°-140°	1699.0	9.4
140°-150°	1304.4	7.2
150°-160°	937.9	5.2
160°-170°	573.0	3.2
170°-180°	193.2	1.1
0°-30°	1526.7	8.4
0°-40°	2468.4	13.6
0°-60°	4219.1	23.3
0°-90°	5086.1	28.1
90°-120°	6157.8	34.0
90°-150°	11327.5	62.5
90°-180°	13032.0	71.9
0°-180°	18117.7	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	15	31	33	33	12
95°	144	514	1548	792	548	150
105°	471	732	2813	4209	3950	495
115°	831	1017	2343	4526	5120	817
125°	1134	1302	2104	3555	4184	1013
135°	1366	1524	2044	2868	3248	1054
145°	1579	1702	2019	2452	2633	990
155°	1792	1858	2001	2200	2271	825
165°	1944	1967	2008	2088	2098	548
175°	2021	2019	2011	2039	2034	192
180°	2019	2019	2019	2019	2019	

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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°	16.3	23.8	28.4	29.0	30.3
90°	5.1	15.2	30.9	33.4	33.4
92.5°	62.7	221.7	438.2	210.9	146.6
95°	144.0	513.6	1548.1	791.6	547.7
97.5°	229.9	587.9	2428.0	2028.4	1529.6
100°	295.7	617.6	2707.8	2833.2	2350.4
102.5°	359.5	659.2	2800.4	3435.8	3039.6
105°	470.6	732.1	2813.3	4208.9	3949.9
107.5°	575.5	808.8	2693.4	4606.1	4673.0
110°	645.5	866.7	2584.4	4729.5	4973.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.5	924.7	2479.5	4702.2	5103.0
115°	830.6	1016.7	2342.7	4526.5	5119.9
117.5°	931.9	1106.4	2236.7	4246.2	4907.0
120°	997.8	1166.2	2183.2	4045.0	4723.9
122.5°	1055.4	1221.8	2144.2	3839.3	4516.1
125°	1134.0	1302.5	2103.5	3555.3	4183.9
127.5°	1209.7	1375.6	2077.8	3304.8	3866.1
130°	1254.9	1420.9	2067.5	3161.3	3654.2
132.5°	1300.2	1464.1	2057.2	3034.9	3487.5
135°	1365.5	1523.9	2044.4	2868.2	3247.9
137.5°	1427.7	1579.6	2037.7	2726.7	3038.5
140°	1470.9	1616.8	2031.5	2639.7	2921.3
142.5°	1516.2	1652.0	2027.4	2558.4	2795.8
145°	1578.9	1702.1	2018.7	2452.2	2633.3
147.5°	1646.8	1753.9	2009.9	2362.9	2505.2
150°	1692.1	1785.1	2005.8	2306.8	2425.0
152.5°	1733.2	1814.2	2003.7	2261.0	2357.1
155°	1792.4	1857.7	2000.7	2200.3	2270.7
157.5°	1844.3	1895.1	2001.2	2157.6	2204.8
160°	1877.2	1920.0	2003.2	2132.6	2167.8
162.5°	1906.0	1940.7	2005.3	2111.8	2137.0
165°	1944.1	1966.7	2008.4	2088.3	2098.4
167.5°	1974.9	1988.0	2010.9	2070.2	2074.2
170°	1995.5	2000.5	2010.9	2059.8	2059.8
172.5°	2007.9	2008.9	2013.0	2049.5	2049.5
175°	2021.2	2018.7	2010.9	2039.1	2034.1
177.5°	2026.9	2022.9	2012.5	2028.9	2024.8
180°	2018.7	2018.7	2018.7	2018.7	2018.7

(END OF REPORT)