

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: P519515

Luminaire Tested: **SQ4-WB-125U-100D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519515
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

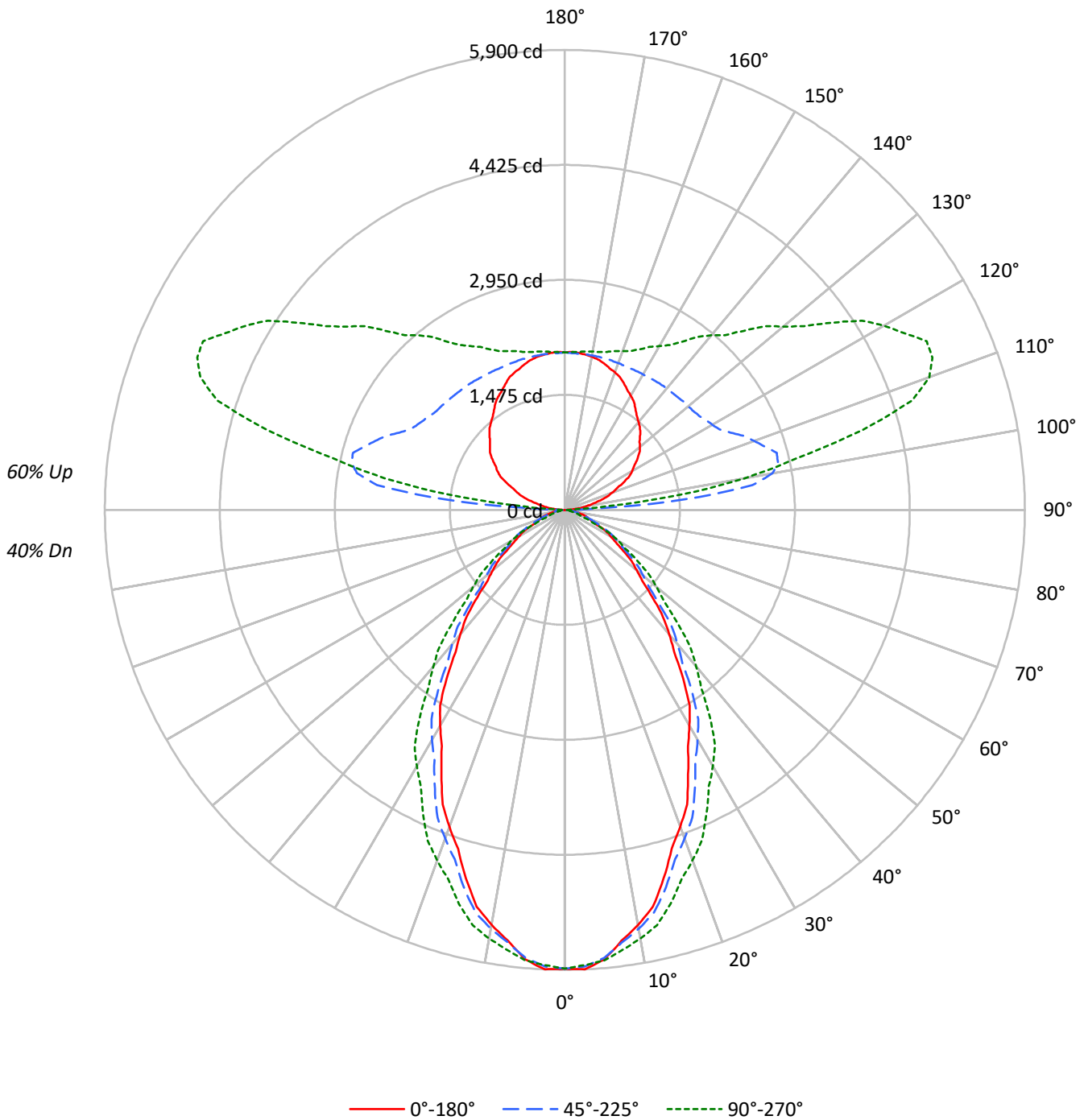
Lumens per Lamp: N/A
Luminaire Lumens: 21613.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 201.2
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8796
50°	5758	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3326	3928	3120
70°	2949	3065	1904
75°	2732	2486	1166
80°	2515	2286	1006
85°	2279	2096	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.9	2.5
10°-20°	1404.3	6.5
20°-30°	1818.9	8.4
30°-40°	1781.2	8.2
40°-50°	1363.4	6.3
50°-60°	908.5	4.2
60°-70°	495.8	2.3
70°-80°	206.6	1.0
80°-90°	63.2	0.3
90°-100°	944.3	4.4
100°-110°	2543.8	11.8
110°-120°	2669.6	12.4
120°-130°	2166.3	10.0
130°-140°	1699.0	7.9
140°-150°	1304.4	6.0
150°-160°	937.9	4.3
160°-170°	573.0	2.7
170°-180°	193.2	0.9
0°-30°	3763.1	17.4
0°-40°	5544.3	25.7
0°-60°	7816.2	36.2
0°-90°	8581.7	39.7
90°-120°	6157.8	28.5
90°-150°	11327.5	52.4
90°-180°	13032.0	60.3
0°-180°	21613.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5886	5886	5886	5886	5886	
5°	5790	5732	5770	5783	5803	539
15°	4897	4879	5010	5147	5235	1367
25°	3742	3752	3946	4118	4300	1721
35°	2645	2657	2836	3027	3241	1644
45°	1586	1616	1723	1853	2022	1237
55°	912	950	1005	1043	1129	827
65°	457	495	540	472	429	475
75°	230	230	209	144	98	245
85°	65	65	59	38	23	70
90°	5	15	31	33	33	13
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°	5886.0	5886.0	5886.0	5886.0	5886.0
2.5°	5900.5	5847.9	5861.2	5860.8	5844.7
5°	5790.4	5732.4	5769.8	5783.2	5803.4
7.5°	5575.6	5531.6	5599.8	5650.4	5691.3
10°	5408.2	5370.3	5457.3	5530.8	5583.8
12.5°	5214.0	5182.2	5289.9	5388.6	5457.8
15°	4896.8	4879.1	5010.5	5146.8	5235.2
17.5°	4557.5	4548.9	4699.5	4858.6	4971.7
20°	4326.0	4323.5	4488.8	4654.5	4785.8
22.5°	4092.6	4098.1	4271.8	4444.1	4593.6
25°	3742.4	3752.5	3946.4	4118.4	4300.2
27.5°	3418.5	3423.0	3623.5	3805.1	3999.1
30°	3197.4	3210.0	3406.6	3594.6	3796.6
32.5°	2976.3	2991.0	3183.5	3377.7	3583.8
35°	2644.7	2657.3	2835.8	3026.7	3241.3
37.5°	2302.7	2319.9	2478.4	2658.8	2869.9
40°	2081.7	2106.9	2247.0	2417.0	2624.0
42.5°	1868.9	1900.2	2030.0	2191.3	2378.2
45°	1585.8	1616.1	1722.7	1853.1	2022.3
47.5°	1342.0	1376.8	1458.7	1571.0	1715.4
50°	1203.5	1236.4	1312.0	1395.2	1531.5
52.5°	1081.6	1114.5	1181.9	1246.0	1362.1
55°	911.7	949.6	1004.7	1042.8	1128.6
57.5°	772.2	808.6	852.3	869.5	921.5
60°	679.3	719.7	759.3	757.4	785.1
62.5°	594.5	628.9	668.4	641.1	642.6
65°	457.1	495.0	539.8	471.7	428.7
67.5°	369.3	377.4	423.6	328.9	277.9
70°	328.0	328.0	340.9	254.7	211.8
72.5°	288.7	288.7	276.9	207.1	162.2
75°	229.9	229.9	209.2	143.6	98.1
77.5°	177.2	175.2	160.1	107.1	71.3
80°	142.0	142.0	129.1	84.6	56.8
82.5°	111.1	111.1	100.2	66.1	42.4
85°	64.6	64.6	59.4	38.4	23.2
87.5°	23.8	25.8	26.8	19.0	17.0
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)