

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: P563745

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

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563745  
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-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

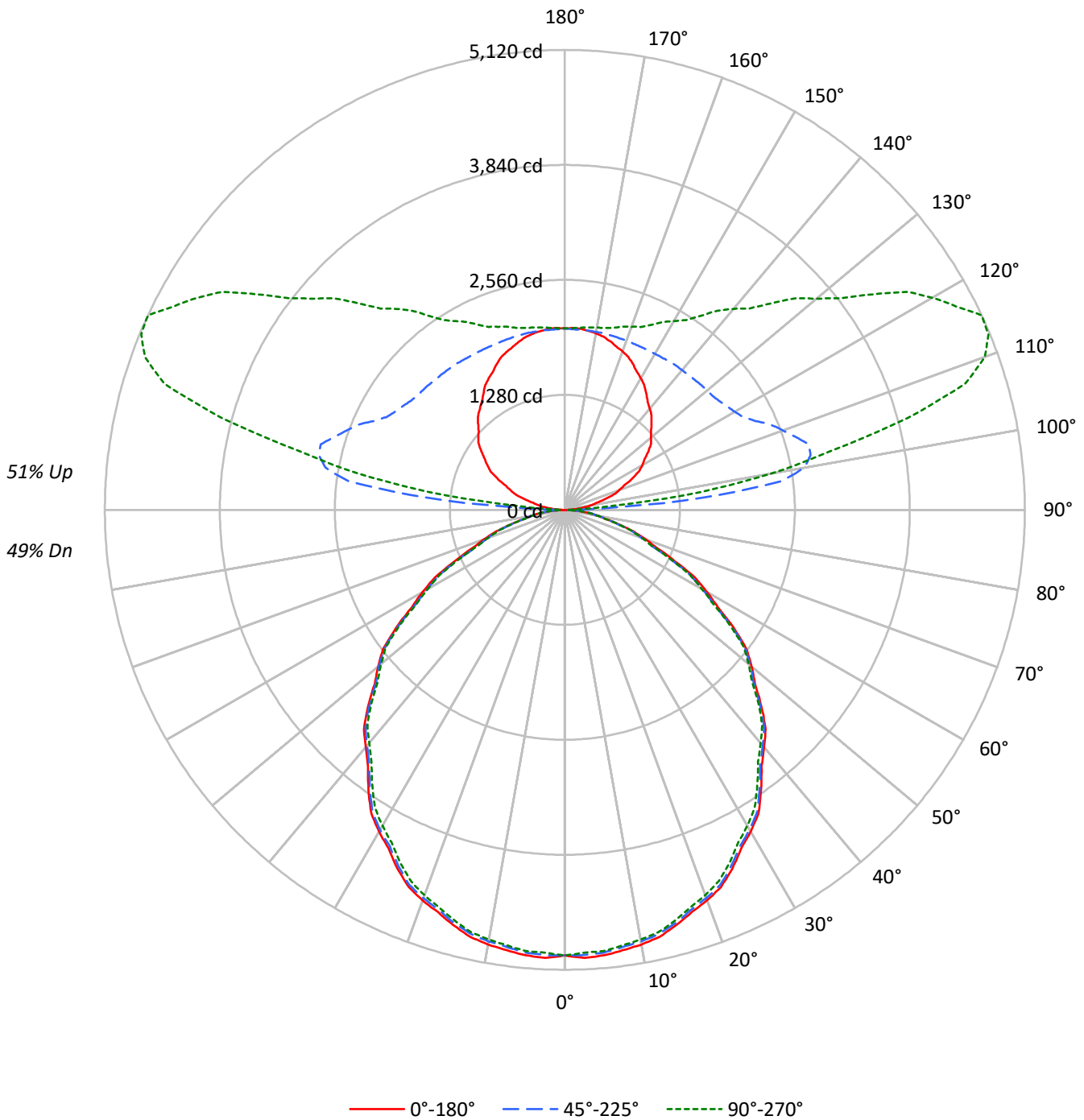
Lumens per Lamp: N/A  
Luminaire Lumens: 25735.2 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 233.8  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15259	15259	15259
5°	15371	15277	15223
10°	15345	15236	15168
15°	15243	15160	15077
20°	15142	15057	14943
25°	14962	14859	14711
30°	14685	14608	14423
35°	14301	14203	14024
40°	13844	13757	13599
45°	13466	13371	13239
50°	12982	12899	12774
55°	12311	12147	12054
60°	11207	10886	10832
65°	9873	9462	9430
70°	8524	8172	8172
75°	7337	7234	7131
80°	6470	6546	6392
85°	5064	5522	5522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.2	1.8
10°-20°	1339.6	5.2
20°-30°	2006.6	7.8
30°-40°	2353.6	9.1
40°-50°	2360.9	9.2
50°-60°	2014.1	7.8
60°-70°	1313.5	5.1
70°-80°	659.0	2.6
80°-90°	187.1	0.7
90°-100°	944.3	3.7
100°-110°	2543.8	9.9
110°-120°	2669.6	10.4
120°-130°	2166.3	8.4
130°-140°	1699.0	6.6
140°-150°	1304.4	5.1
150°-160°	937.9	3.6
160°-170°	573.0	2.2
170°-180°	193.2	0.8
0°-30°	3815.3	14.8
0°-40°	6168.9	24.0
0°-60°	10543.9	41.0
0°-90°	12703.5	49.4
90°-120°	6157.8	23.9
90°-150°	11327.5	44.0
90°-180°	13032.0	50.6
0°-180°	25735.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4962	4962	4962	4962	4962	
5°	4979	4932	4948	4931	4931	473
15°	4788	4741	4762	4744	4735	1351
25°	4409	4358	4379	4340	4335	2028
35°	3809	3771	3783	3740	3735	2379
45°	3096	3075	3074	3044	3044	2384
55°	2296	2288	2266	2252	2248	2040
65°	1357	1331	1300	1292	1296	1354
75°	618	618	609	604	600	670
85°	144	156	156	156	156	169
90°	5	15	31	33	33	15
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°	4961.5	4961.5	4961.5	4961.5	4961.5
2.5°	4992.9	4952.0	4961.5	4954.1	4933.7
5°	4978.9	4932.2	4948.5	4931.1	4931.1
7.5°	4945.0	4894.0	4910.2	4892.8	4892.0
10°	4913.7	4862.7	4878.9	4861.4	4857.2
12.5°	4868.5	4817.5	4837.2	4816.3	4815.4
15°	4787.6	4740.8	4761.5	4743.9	4735.4
17.5°	4696.3	4645.3	4670.2	4645.8	4642.4
20°	4626.7	4575.7	4600.6	4565.8	4565.8
22.5°	4543.2	4492.2	4520.6	4475.4	4475.4
25°	4409.3	4358.3	4378.9	4339.6	4335.4
27.5°	4250.1	4200.0	4221.4	4177.1	4176.2
30°	4135.3	4088.6	4113.6	4065.7	4061.4
32.5°	4010.1	3966.7	3984.9	3937.0	3932.7
35°	3809.2	3770.9	3783.1	3739.5	3735.3
37.5°	3597.9	3558.8	3572.7	3535.2	3533.5
40°	3448.3	3422.8	3426.6	3395.9	3387.4
42.5°	3309.1	3280.2	3283.9	3253.4	3251.7
45°	3096.1	3074.8	3074.3	3043.9	3043.9
47.5°	2870.0	2853.8	2849.1	2823.8	2823.0
50°	2713.4	2700.7	2696.0	2674.2	2669.9
52.5°	2549.9	2544.0	2529.0	2510.8	2509.9
55°	2296.0	2287.5	2265.5	2252.4	2248.1
57.5°	2020.3	2003.3	1978.5	1959.5	1962.9
60°	1822.0	1805.0	1769.8	1761.1	1761.1
62.5°	1630.7	1610.2	1575.0	1563.0	1569.8
65°	1356.7	1331.2	1300.2	1291.6	1295.8
67.5°	1108.0	1085.0	1051.4	1051.4	1048.0
70°	948.0	935.2	908.8	908.8	908.8
72.5°	805.3	799.4	780.1	780.0	776.6
75°	617.5	617.5	608.8	604.3	600.1
77.5°	462.7	464.4	460.1	455.5	447.9
80°	365.3	373.8	369.6	365.2	360.9
82.5°	274.8	283.3	282.6	274.8	274.0
85°	143.5	156.3	156.5	156.5	156.5
87.5°	39.3	54.9	61.8	62.4	65.8
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)