

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: P520455

Luminaire Tested: **SQ4-F-150U-125D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P520455  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G3-1910-536-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-F-150U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

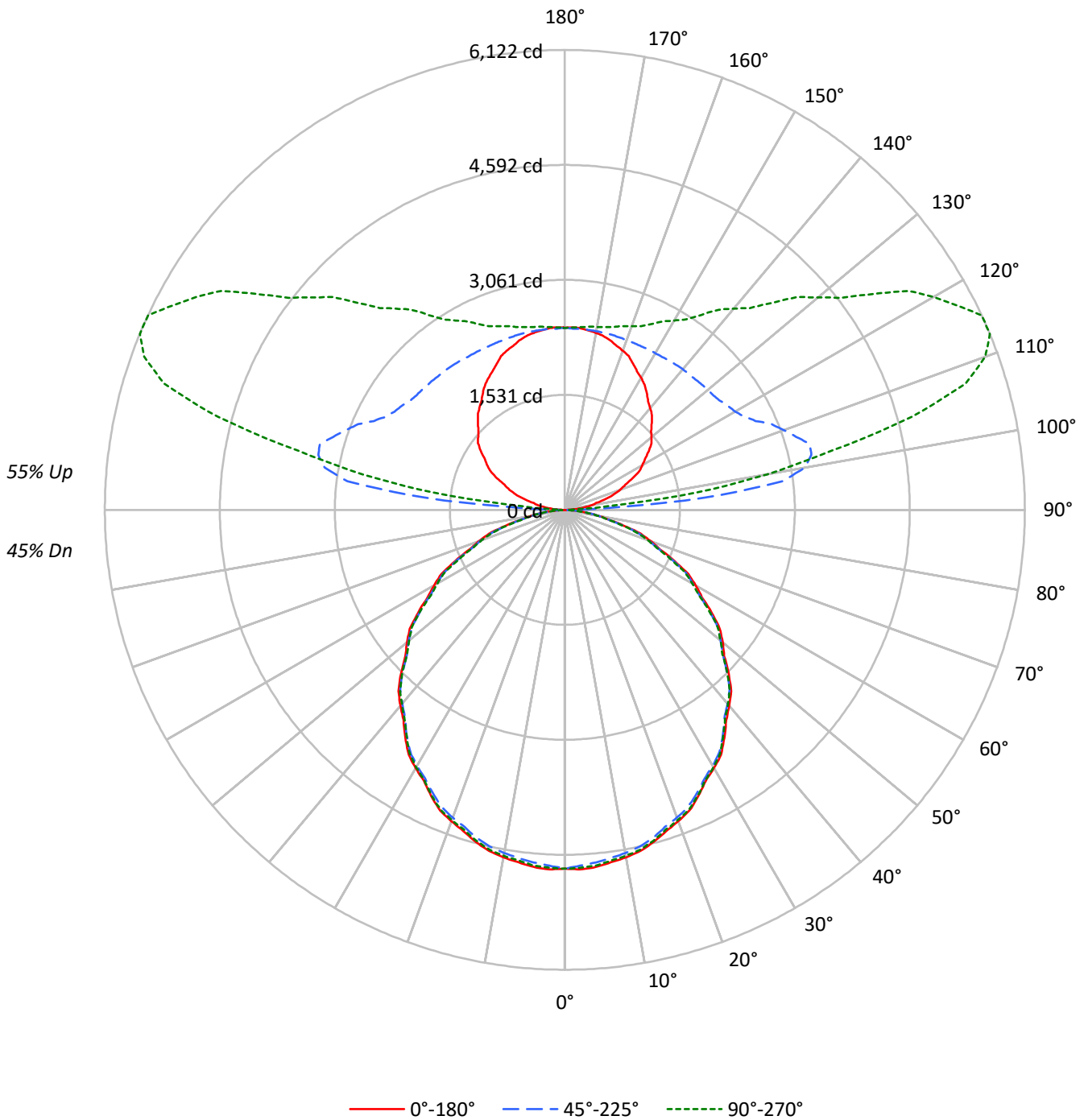
Lumens per Lamp: N/A  
Luminaire Lumens: 28658.1 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 260.3  
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	69	80	74	69	64	62	58	55	51	48	46	40	38	37	32
3	80	71	63	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	31	52	42	35	29	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	48	38	31	26	32	27	23	27	22	19	22	19	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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

	0°	45°	90°
0°	14688	14688	14688
5°	14736	14549	14671
10°	14668	14488	14603
15°	14570	14394	14512
20°	14435	14272	14383
25°	14271	14119	14235
30°	14095	13973	14048
35°	13895	13776	13786
40°	13665	13518	13560
45°	13410	13261	13284
50°	13117	12965	12928
55°	12783	12599	12571
60°	12368	12093	12029
65°	11725	11477	11324
70°	10920	10636	10494
75°	9714	9495	9214
80°	7915	7681	7633
85°	4732	5378	5378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.6	1.6
10°-20°	1283.4	4.5
20°-30°	1928.2	6.7
30°-40°	2300.7	8.0
40°-50°	2358.3	8.2
50°-60°	2102.0	7.3
60°-70°	1564.8	5.5
70°-80°	847.7	3.0
80°-90°	199.7	0.7
90°-100°	1126.1	3.9
100°-110°	3044.8	10.6
110°-120°	3201.1	11.2
120°-130°	2600.2	9.1
130°-140°	2039.6	7.1
140°-150°	1565.4	5.5
150°-160°	1125.8	3.9
160°-170°	687.8	2.4
170°-180°	231.9	0.8
0°-30°	3662.2	12.8
0°-40°	5962.9	20.8
0°-60°	10423.1	36.4
0°-90°	13035.3	45.5
90°-120°	7372.0	25.7
90°-150°	13577.3	47.4
90°-180°	15623.0	54.5
0°-180°	28658.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4776	4776	4776	4776	4776	
5°	4773	4766	4713	4755	4752	453
15°	4576	4566	4521	4560	4558	1290
25°	4206	4198	4161	4185	4195	1937
35°	3701	3698	3669	3669	3672	2314
45°	3083	3076	3049	3044	3054	2376
55°	2384	2376	2350	2332	2345	2129
65°	1611	1601	1577	1566	1556	1595
75°	818	818	799	783	775	868
85°	134	152	152	155	152	185
90°	5	15	34	36	34	15
95°	175	614	1873	969	576	183
105°	566	875	3378	4982	4778	596
115°	996	1218	2801	5423	6122	984
125°	1364	1563	2525	4261	5005	1216
135°	1635	1829	2457	3440	3894	1264
145°	1901	2044	2423	2945	3169	1190
155°	2147	2231	2402	2642	2728	990
165°	2337	2360	2413	2507	2520	658
175°	2426	2423	2415	2446	2441	230
180°	2423	2423	2423	2423	2423	

TEST NUMBER: P520455

CATALOG NUMBER: SQ4-F-150U-125D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4776.0	4776.0	4776.0	4776.0	4776.0
2.5°	4790.7	4782.5	4740.2	4775.8	4769.7
5°	4773.4	4765.7	4712.9	4754.9	4752.3
7.5°	4732.8	4723.1	4675.1	4714.4	4709.7
10°	4697.1	4689.4	4639.3	4678.7	4676.1
12.5°	4653.0	4645.3	4595.2	4634.5	4634.0
15°	4576.2	4565.9	4521.0	4560.4	4557.8
17.5°	4484.2	4472.3	4428.0	4459.1	4464.2
20°	4410.6	4402.9	4360.7	4389.7	4394.8
22.5°	4334.9	4325.2	4280.8	4314.0	4319.1
25°	4205.6	4197.9	4160.9	4184.8	4195.1
27.5°	4063.7	4063.7	4029.4	4046.5	4052.7
30°	3969.0	3969.0	3934.9	3945.6	3955.9
32.5°	3868.1	3859.9	3827.7	3836.3	3846.5
35°	3701.0	3698.3	3669.3	3669.4	3672.0
37.5°	3528.0	3520.8	3489.0	3491.5	3503.8
40°	3403.9	3398.7	3367.1	3367.3	3377.6
42.5°	3277.7	3272.5	3245.2	3241.0	3245.2
45°	3083.2	3075.5	3049.1	3044.0	3054.3
47.5°	2876.1	2878.2	2846.7	2839.5	2845.0
50°	2741.6	2741.6	2709.9	2694.3	2702.1
52.5°	2600.6	2596.5	2564.9	2547.4	2565.4
55°	2384.1	2376.3	2349.8	2331.8	2344.6
57.5°	2162.2	2150.4	2123.8	2104.1	2111.3
60°	2010.8	1992.8	1966.1	1950.4	1955.6
62.5°	1853.1	1843.3	1814.7	1790.8	1802.1
65°	1611.3	1601.0	1577.1	1566.4	1556.1
67.5°	1374.2	1367.5	1340.6	1329.3	1322.6
70°	1214.4	1201.5	1182.8	1169.6	1167.1
72.5°	1058.7	1043.8	1025.1	1013.9	1007.2
75°	817.5	817.5	799.1	783.1	775.4
77.5°	587.7	589.8	574.6	569.3	565.6
80°	446.9	446.9	433.7	428.5	431.0
82.5°	312.3	318.4	313.9	306.4	302.8
85°	134.1	152.0	152.4	155.1	152.4
87.5°	24.2	40.6	46.8	43.0	38.4
90°	5.2	15.4	33.9	36.4	33.9
92.5°	74.0	269.9	532.6	231.2	167.5
95°	174.7	613.5	1872.7	969.2	576.4
97.5°	280.7	703.5	2919.3	2415.9	1774.2
100°	359.9	739.9	3244.7	3383.9	2736.1
102.5°	433.0	790.5	3359.5	4117.9	3633.4
105°	566.0	874.6	3377.8	4982.4	4778.4
107.5°	689.1	970.7	3230.1	5521.8	5589.7
110°	785.1	1040.1	3098.6	5666.6	5954.7



TEST NUMBER: P520455

CATALOG NUMBER: SQ4-F-150U-125D-940-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	870.7	1109.4	2977.6	5637.6	6121.7
115°	996.3	1218.2	2801.4	5422.9	6121.7
117.5°	1119.5	1327.6	2685.0	5094.8	5886.9
120°	1194.6	1398.6	2616.2	4859.4	5667.8
122.5°	1265.5	1465.5	2574.4	4607.0	5421.7
125°	1364.1	1563.1	2524.8	4260.7	5005.4
127.5°	1455.0	1650.3	2495.7	3978.0	4632.9
130°	1505.0	1706.5	2483.1	3803.3	4395.1
132.5°	1557.2	1756.6	2470.6	3645.8	4190.5
135°	1635.4	1829.3	2457.0	3440.3	3894.2
137.5°	1714.2	1897.3	2445.6	3273.5	3643.3
140°	1768.4	1939.3	2441.4	3166.1	3495.1
142.5°	1820.6	1981.3	2433.1	3069.3	3357.4
145°	1901.4	2044.3	2423.1	2944.6	3169.1
147.5°	1975.1	2101.5	2411.7	2831.9	3004.3
150°	2029.3	2141.4	2407.4	2770.6	2908.3
152.5°	2079.4	2177.3	2405.4	2713.6	2826.9
155°	2146.7	2230.8	2402.3	2641.6	2728.3
157.5°	2216.6	2275.2	2402.8	2591.3	2648.5
160°	2256.2	2304.6	2404.9	2559.7	2600.5
162.5°	2287.5	2327.8	2406.9	2534.4	2565.1
165°	2337.0	2360.0	2412.7	2506.9	2519.6
167.5°	2370.9	2386.8	2413.3	2483.3	2489.4
170°	2391.8	2399.5	2415.3	2472.7	2472.7
172.5°	2408.5	2410.0	2415.3	2460.1	2458.0
175°	2425.7	2423.2	2415.3	2446.5	2441.4
177.5°	2431.5	2425.3	2414.8	2435.5	2429.4
180°	2423.1	2423.1	2423.1	2423.1	2423.1

(END OF REPORT)