

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: P519879

Luminaire Tested: **SQ4-F-025U-125D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519879  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

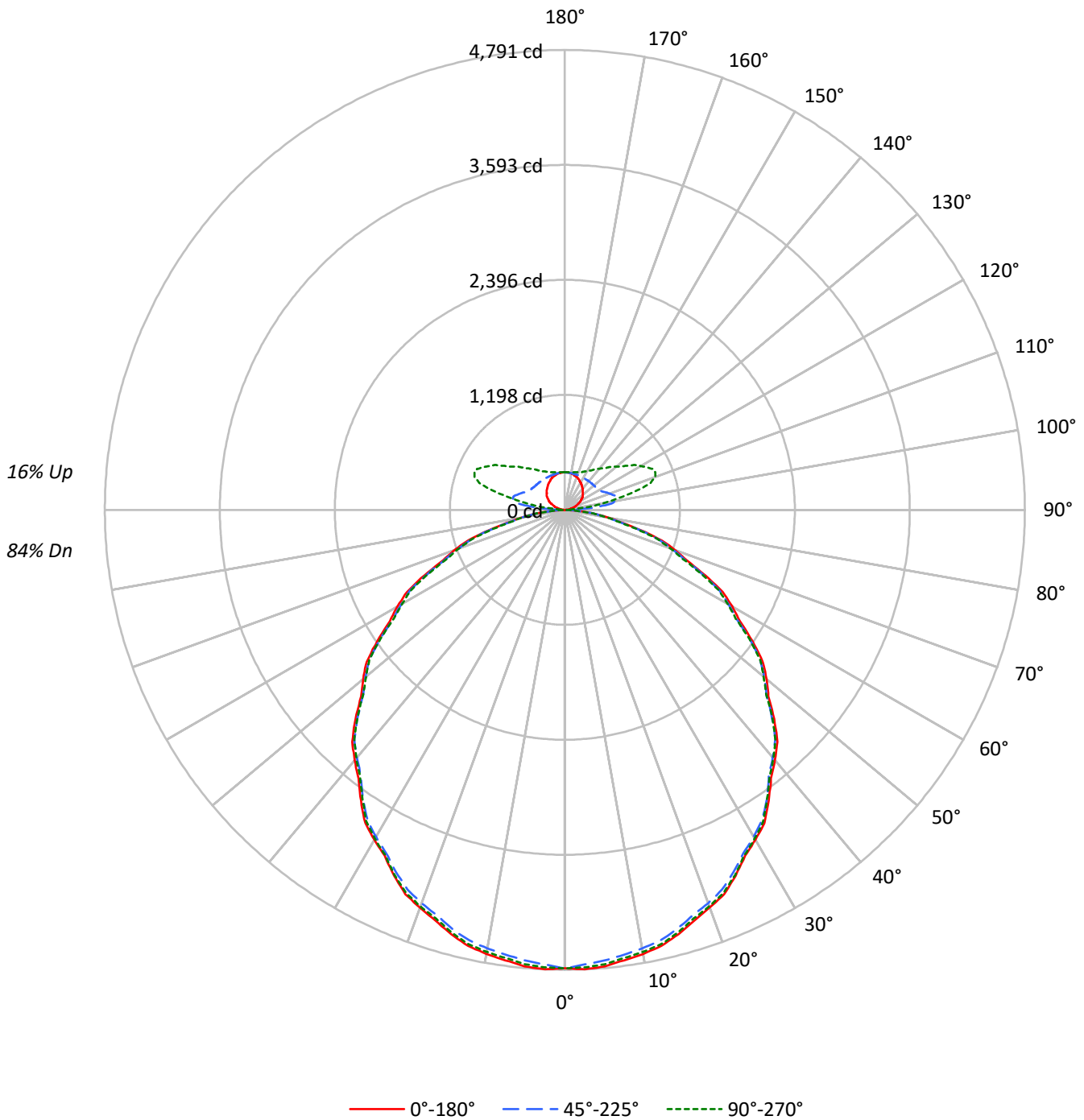
Lumens per Lamp: N/A  
Luminaire Lumens: 15562.7 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 154  
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	59	55	60	56	52	50
4	80	68	60	53	76	66	58	52	61	55	50	57	52	47	53	49	45	42
5	74	61	52	46	70	59	51	45	55	48	43	51	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	38	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	36	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

**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	2.9
10°-20°	1283.4	8.2
20°-30°	1928.2	12.4
30°-40°	2300.7	14.8
40°-50°	2358.3	15.2
50°-60°	2102.0	13.5
60°-70°	1564.8	10.1
70°-80°	847.7	5.4
80°-90°	196.7	1.3
90°-100°	190.3	1.2
100°-110°	500.2	3.2
110°-120°	518.7	3.3
120°-130°	416.0	2.7
130°-140°	326.4	2.1
140°-150°	250.5	1.6
150°-160°	180.5	1.2
160°-170°	110.4	0.7
170°-180°	37.3	0.2
0°-30°	3662.2	23.5
0°-40°	5962.9	38.3
0°-60°	10423.1	67.0
0°-90°	13032.4	83.7
90°-120°	1209.1	7.8
90°-150°	2202.1	14.2
90°-180°	2530.0	16.3
0°-180°	15562.7	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°	2	7	20	10	10	5
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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**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°	23.6	39.1	44.2	37.8	33.6
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.7	112.1	49.6	32.0
95°	25.0	98.5	327.9	168.9	115.1
97.5°	43.6	108.1	490.5	390.1	287.2
100°	57.5	116.2	540.5	547.7	425.5
102.5°	69.6	124.4	554.5	682.3	577.5
105°	90.0	136.6	553.1	839.5	783.2
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.3	1001.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	139.2	176.4	471.4	928.9	1018.9
115°	160.2	194.4	442.9	883.7	1008.4
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.6	234.1	409.4	736.7	869.4
125°	222.7	249.7	402.9	681.0	803.3
127.5°	237.2	264.7	397.4	635.9	739.2
130°	245.3	274.6	395.3	607.7	703.1
132.5°	253.2	282.6	393.3	583.6	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.3	387.9	504.3	560.5
142.5°	295.7	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.2	481.5
150°	327.9	345.0	385.4	440.9	465.4
152.5°	335.8	349.1	385.4	432.8	451.5
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.2	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.4	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)