

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: P564613

Luminaire Tested: **SQ4-PW1-025U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564613  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-025U-125D-940-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15028.7 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

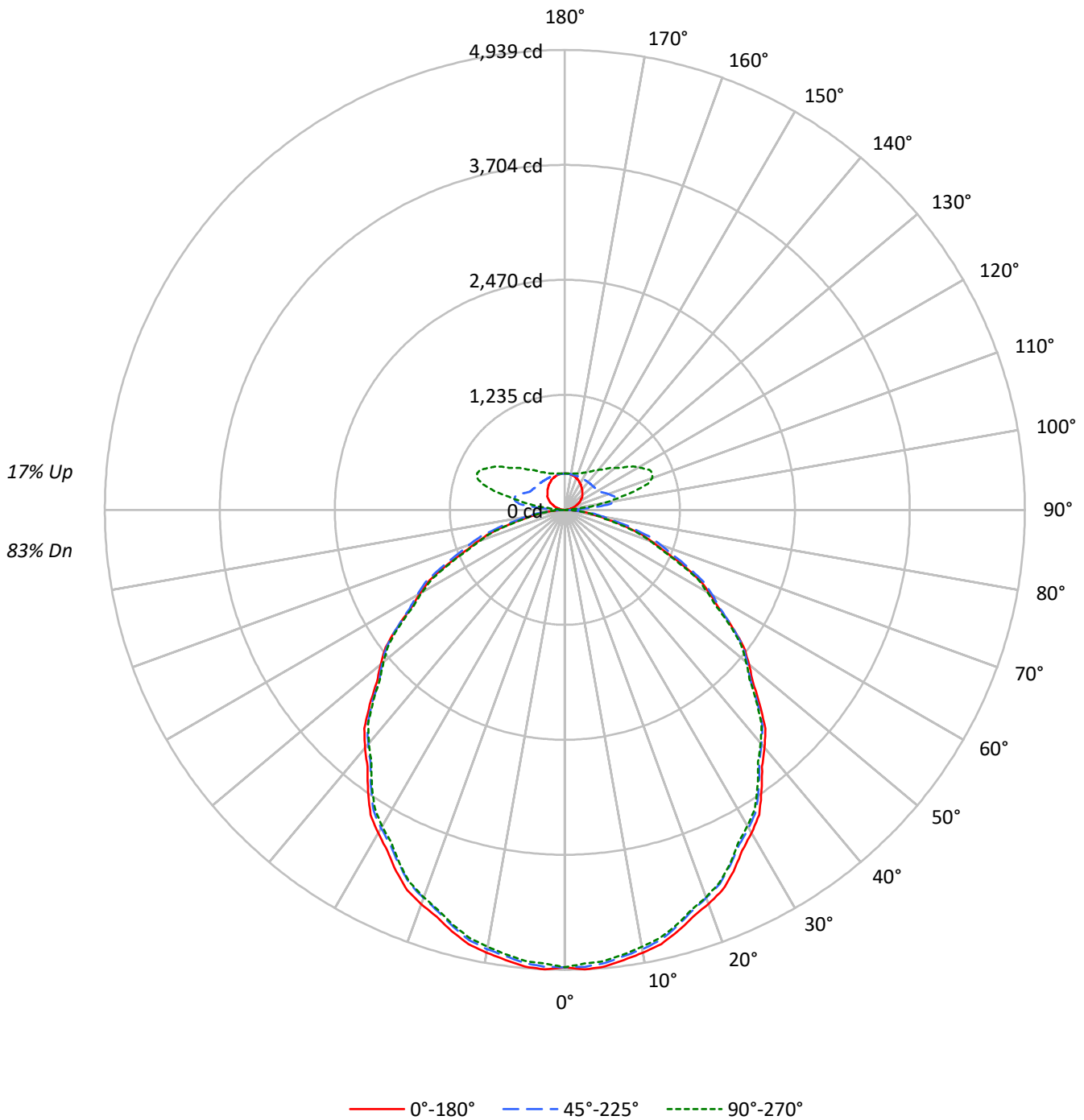
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	70
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	49	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	50	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	39	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

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

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14878
15°	14921	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13394	13186	13134
45°	12873	12704	12648
50°	12340	12236	12154
55°	11764	11764	11578
60°	11046	11259	10860
65°	10109	10612	9857
70°	8911	9767	8677
75°	7610	8742	7404
80°	5901	7357	5977
85°	3818	5649	5039



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.5	3.1
10°-20°	1305.8	8.7
20°-30°	1936.9	12.9
30°-40°	2266.3	15.1
40°-50°	2256.2	15.0
50°-60°	1948.4	13.0
60°-70°	1402.5	9.3
70°-80°	735.4	4.9
80°-90°	184.4	1.2
90°-100°	190.3	1.3
100°-110°	500.2	3.3
110°-120°	518.7	3.5
120°-130°	416.0	2.8
130°-140°	326.4	2.2
140°-150°	250.5	1.7
150°-160°	180.4	1.2
160°-170°	110.4	0.7
170°-180°	37.3	0.2
0°-30°	3705.1	24.7
0°-40°	5971.5	39.7
0°-60°	10176.1	67.7
0°-90°	12498.4	83.2
90°-120°	1209.1	8.0
90°-150°	2202.1	14.7
90°-180°	2530.0	16.8
0°-180°	15028.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4912	4912	4912	4912	4912	
5°	4924	4870	4886	4872	4864	466
15°	4686	4627	4635	4626	4617	1321
25°	4284	4212	4206	4180	4193	1970
35°	3683	3632	3631	3596	3609	2302
45°	2960	2934	2921	2912	2908	2284
55°	2194	2190	2194	2164	2159	1958
65°	1389	1431	1458	1401	1354	1377
75°	640	700	736	687	623	686
85°	108	142	160	151	143	143
90°	2	7	20	10	10	6
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°	4911.6	4911.6	4911.6	4911.6	4911.6
2.5°	4939.3	4898.6	4911.6	4900.6	4876.9
5°	4924.5	4869.5	4885.6	4872.4	4864.0
7.5°	4874.3	4823.6	4835.4	4821.4	4816.4
10°	4829.3	4778.6	4790.4	4772.9	4764.4
12.5°	4777.4	4723.3	4735.0	4717.6	4712.5
15°	4686.5	4627.3	4634.6	4625.8	4617.3
17.5°	4580.9	4520.9	4522.1	4508.2	4506.5
20°	4504.8	4441.3	4435.5	4418.4	4426.9
22.5°	4421.7	4354.8	4349.0	4325.0	4336.9
25°	4284.1	4212.2	4206.2	4180.5	4193.2
27.5°	4124.8	4053.8	4053.9	4017.8	4031.4
30°	4007.1	3939.4	3946.6	3903.7	3920.6
32.5°	3882.5	3821.6	3825.4	3782.5	3799.4
35°	3682.6	3631.8	3630.7	3596.3	3609.0
37.5°	3478.3	3433.5	3426.4	3406.6	3410.0
40°	3336.4	3298.3	3284.5	3271.5	3271.5
42.5°	3187.5	3152.8	3139.1	3129.5	3126.1
45°	2959.9	2934.5	2921.0	2912.2	2908.0
47.5°	2734.9	2711.2	2699.4	2693.3	2689.0
50°	2579.1	2562.2	2557.5	2544.4	2540.2
52.5°	2423.3	2413.2	2408.6	2392.1	2387.8
55°	2194.0	2189.7	2194.0	2163.6	2159.4
57.5°	1955.1	1961.9	1975.9	1935.0	1924.8
60°	1795.9	1812.8	1830.5	1782.5	1765.6
62.5°	1633.1	1660.2	1685.1	1630.0	1606.3
65°	1389.1	1431.4	1458.3	1401.0	1354.5
67.5°	1153.7	1206.1	1238.5	1176.7	1124.2
70°	991.0	1050.2	1086.2	1024.2	965.0
72.5°	849.0	915.0	944.2	885.8	826.5
75°	640.4	699.7	735.7	686.6	623.1
77.5°	454.4	510.2	540.1	497.3	444.9
80°	333.2	392.4	415.4	379.8	337.5
82.5°	236.3	285.4	301.2	279.8	251.0
85°	108.2	142.0	160.1	151.3	142.8
87.5°	28.2	52.9	69.8	67.9	71.2
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
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°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	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	312.2	387.9	504.3	560.5
142.5°	295.8	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	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
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	380.3	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	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)