

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: P563921

Luminaire Tested: **SQ4-PR1-025U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563921  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-025U-125D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16450.7 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

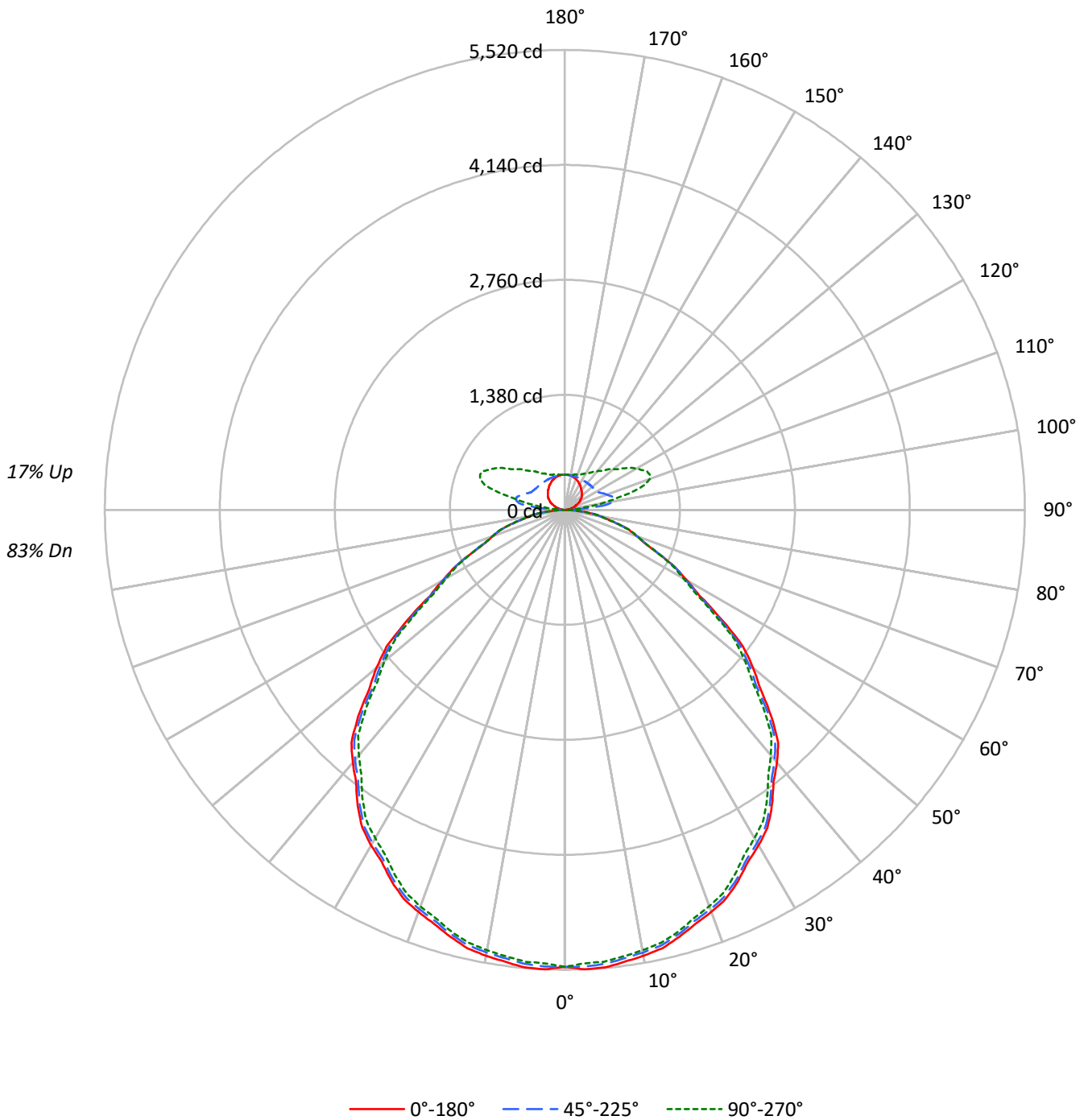
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

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

	0°	45°	90°
0°	16870	16870	16870
5°	17022	16891	16803
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16701	16577
25°	16690	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14673
50°	14106	13767	13496
55°	12312	12033	11780
60°	10375	10288	10084
65°	8974	9008	8940
70°	8242	8284	8284
75°	7916	7916	7972
80°	7447	7531	7447
85°	6002	6669	6669



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	518.7	3.2
10°-20°	1484.2	9.0
20°-30°	2238.6	13.6
30°-40°	2667.3	16.2
40°-50°	2629.7	16.0
50°-60°	2009.8	12.2
60°-70°	1243.7	7.6
70°-80°	706.4	4.3
80°-90°	217.1	1.3
90°-100°	205.7	1.3
100°-110°	540.7	3.3
110°-120°	560.7	3.4
120°-130°	449.7	2.7
130°-140°	352.9	2.1
140°-150°	270.8	1.6
150°-160°	195.1	1.2
160°-170°	119.3	0.7
170°-180°	40.3	0.2
0°-30°	4241.5	25.8
0°-40°	6908.8	42.0
0°-60°	11548.3	70.2
0°-90°	13715.6	83.4
90°-120°	1307.0	7.9
90°-150°	2380.4	14.5
90°-180°	2735.0	16.6
0°-180°	16450.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5486	5486	5486	5486	5486	
5°	5514	5454	5471	5452	5443	523
15°	5306	5251	5273	5254	5245	1497
25°	4919	4858	4886	4833	4829	2264
35°	4333	4282	4295	4238	4234	2704
45°	3506	3460	3444	3383	3374	2686
55°	2296	2259	2244	2206	2197	2058
65°	1233	1224	1238	1228	1228	1249
75°	666	666	666	671	671	704
85°	170	179	189	189	189	198
90°	3	8	22	11	11	9
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	387	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	

TEST NUMBER: P563921

CATALOG NUMBER: SQ4-PR1-025U-125D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5485.6	5485.6	5485.6	5485.6	5485.6
2.5°	5519.6	5471.5	5485.6	5473.6	5447.8
5°	5513.9	5453.9	5471.4	5452.3	5443.0
7.5°	5471.4	5412.3	5429.8	5410.8	5405.2
10°	5433.6	5378.2	5395.8	5376.7	5367.4
12.5°	5392.0	5332.9	5354.2	5331.3	5322.1
15°	5306.0	5250.6	5272.9	5253.8	5244.6
17.5°	5211.5	5152.4	5174.7	5152.7	5140.7
20°	5135.9	5080.5	5102.9	5069.7	5065.1
22.5°	5052.8	4997.3	5019.7	4975.3	4974.3
25°	4918.6	4858.5	4885.5	4833.4	4828.8
27.5°	4758.9	4703.4	4725.8	4672.8	4667.2
30°	4649.3	4593.8	4616.2	4559.3	4550.0
32.5°	4524.5	4472.8	4491.5	4434.6	4429.1
35°	4332.7	4281.9	4294.9	4238.1	4233.5
37.5°	4114.4	4068.2	4075.7	4013.2	4008.6
40°	3959.4	3913.2	3916.9	3850.7	3846.0
42.5°	3789.3	3743.1	3739.3	3673.0	3668.4
45°	3505.8	3459.7	3444.4	3382.8	3373.6
47.5°	3182.7	3136.5	3108.0	3057.8	3051.3
50°	2948.3	2902.1	2877.4	2834.6	2820.7
52.5°	2695.1	2648.9	2628.0	2588.9	2575.1
55°	2296.3	2259.3	2244.3	2206.3	2197.1
57.5°	1917.3	1892.4	1888.1	1851.1	1847.4
60°	1686.8	1672.9	1672.6	1639.5	1639.5
62.5°	1490.2	1480.1	1487.4	1465.6	1461.9
65°	1233.2	1223.9	1237.9	1228.5	1228.5
67.5°	1030.0	1030.0	1038.5	1034.7	1034.7
70°	916.6	916.6	921.3	921.3	921.3
72.5°	814.6	810.9	823.1	823.0	819.3
75°	666.2	666.2	666.2	670.9	670.9
77.5°	518.8	519.7	523.5	522.5	518.8
80°	420.5	425.1	425.2	420.5	420.5
82.5°	322.2	326.9	327.0	325.9	322.2
85°	170.1	179.3	189.0	189.0	189.0
87.5°	49.7	65.5	79.9	77.7	74.0
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0

TEST NUMBER: P563921

CATALOG NUMBER: SQ4-PR1-025U-125D-830-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)