

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: P563937

Luminaire Tested: **SQ4-PR1-025U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563937
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15143.6 lumens
Efficiency: N/A
Efficacy: 97.0 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

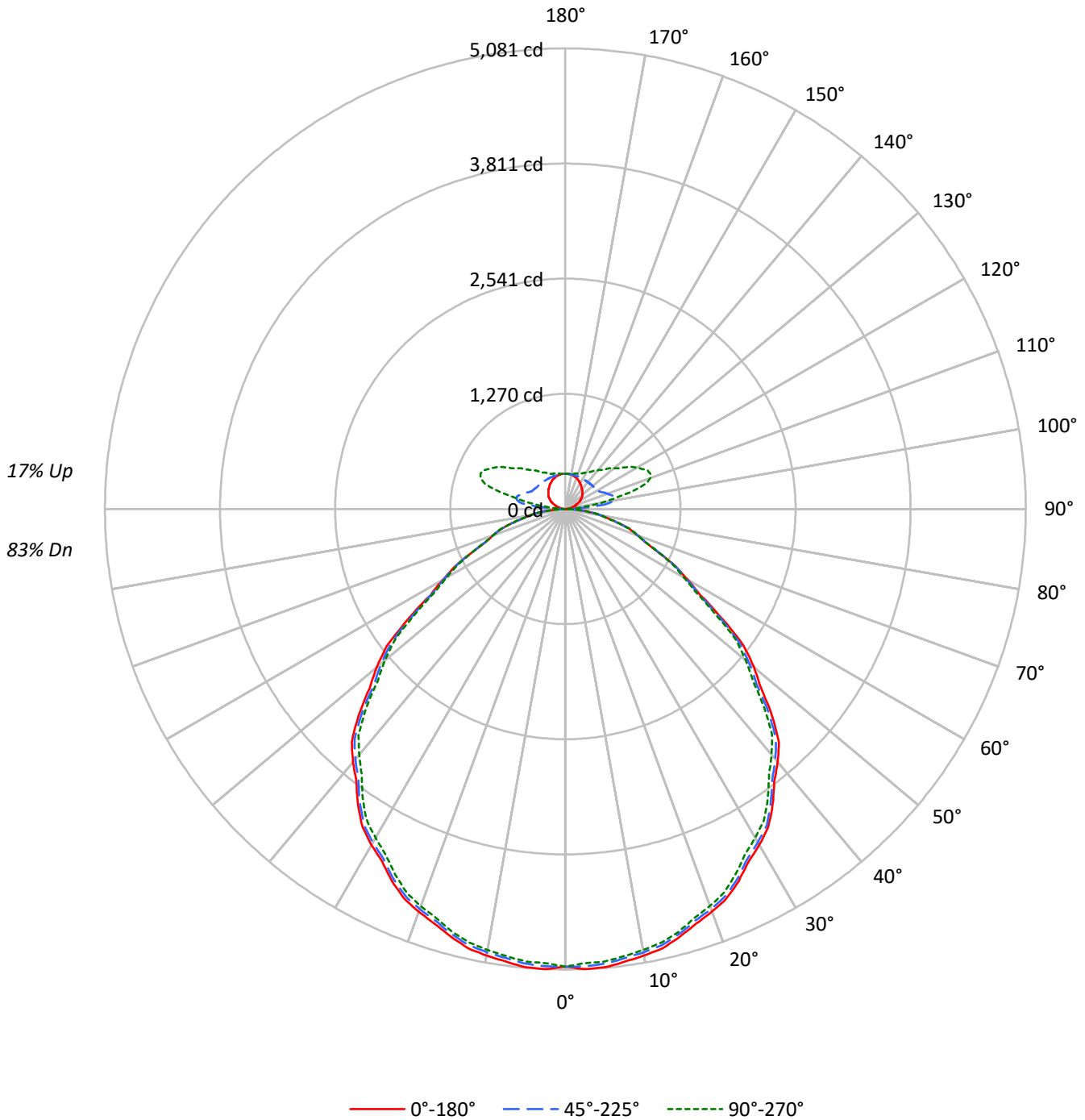
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14476	14213
45°	14036	13790	13507
50°	12985	12673	12423
55°	11334	11077	10844
60°	9550	9470	9283
65°	8261	8293	8230
70°	7587	7626	7626
75°	7287	7287	7339
80°	6856	6932	6856
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	3.2
10°-20°	1366.2	9.0
20°-30°	2060.7	13.6
30°-40°	2455.4	16.2
40°-50°	2420.8	16.0
50°-60°	1850.1	12.2
60°-70°	1144.9	7.6
70°-80°	650.3	4.3
80°-90°	199.9	1.3
90°-100°	189.3	1.3
100°-110°	497.7	3.3
110°-120°	516.1	3.4
120°-130°	414.0	2.7
130°-140°	324.8	2.1
140°-150°	249.3	1.6
150°-160°	179.6	1.2
160°-170°	109.9	0.7
170°-180°	37.1	0.2
0°-30°	3904.5	25.8
0°-40°	6359.9	42.0
0°-60°	10630.7	70.2
0°-90°	12625.8	83.4
90°-120°	1203.2	7.9
90°-150°	2191.3	14.5
90°-180°	2518.0	16.6
0°-180°	15143.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5050	5050	5050	5050	5050	
5°	5076	5020	5037	5019	5011	482
15°	4884	4833	4854	4836	4828	1378
25°	4528	4472	4497	4449	4445	2084
35°	3988	3942	3954	3901	3897	2489
45°	3227	3185	3171	3114	3106	2472
55°	2114	2080	2066	2031	2022	1894
65°	1135	1127	1140	1131	1131	1150
75°	613	613	613	618	618	648
85°	157	165	174	174	174	182
90°	2	7	20	10	10	8
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	



TEST NUMBER: P563937

CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5049.7	5049.7	5049.7	5049.7	5049.7
2.5°	5081.0	5036.8	5049.7	5038.7	5014.9
5°	5075.8	5020.5	5036.6	5019.1	5010.6
7.5°	5036.6	4982.2	4998.4	4980.9	4975.8
10°	5001.9	4950.8	4967.1	4949.5	4941.0
12.5°	4963.6	4909.1	4928.8	4907.7	4899.2
15°	4884.4	4833.4	4854.0	4836.4	4827.9
17.5°	4797.4	4743.0	4763.5	4743.2	4732.2
20°	4727.8	4676.8	4697.4	4666.8	4662.6
22.5°	4651.3	4600.3	4620.8	4579.9	4579.1
25°	4527.8	4472.5	4497.3	4449.4	4445.1
27.5°	4380.8	4329.7	4350.3	4301.5	4296.4
30°	4279.8	4228.8	4249.4	4197.0	4188.5
32.5°	4165.0	4117.4	4134.6	4082.3	4077.2
35°	3988.4	3941.7	3953.6	3901.3	3897.1
37.5°	3787.5	3745.0	3751.8	3694.3	3690.1
40°	3644.8	3602.3	3605.7	3544.7	3540.4
42.5°	3488.2	3445.7	3442.1	3381.2	3376.9
45°	3227.3	3184.8	3170.7	3114.0	3105.5
47.5°	2929.8	2887.3	2861.1	2814.8	2808.9
50°	2714.0	2671.5	2648.8	2609.4	2596.6
52.5°	2480.9	2438.4	2419.2	2383.2	2370.4
55°	2113.8	2079.8	2066.0	2031.0	2022.5
57.5°	1765.0	1742.0	1738.0	1704.0	1700.6
60°	1552.7	1540.0	1539.7	1509.3	1509.3
62.5°	1371.8	1362.5	1369.2	1349.1	1345.7
65°	1135.2	1126.7	1139.6	1130.9	1130.9
67.5°	948.2	948.2	956.0	952.5	952.5
70°	843.8	843.8	848.1	848.1	848.1
72.5°	749.8	746.4	757.7	757.6	754.2
75°	613.3	613.3	613.3	617.6	617.6
77.5°	477.6	478.4	481.9	481.0	477.6
80°	387.1	391.4	391.4	387.1	387.1
82.5°	296.6	300.9	301.0	300.0	296.6
85°	156.6	165.1	174.0	174.0	174.0
87.5°	45.7	60.3	73.6	71.5	68.1
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



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CATALOG NUMBER: SQ4-PR1-025U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)