

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: P518339

Luminaire Tested: **SQ4-BB-025U-075D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518339
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-025U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

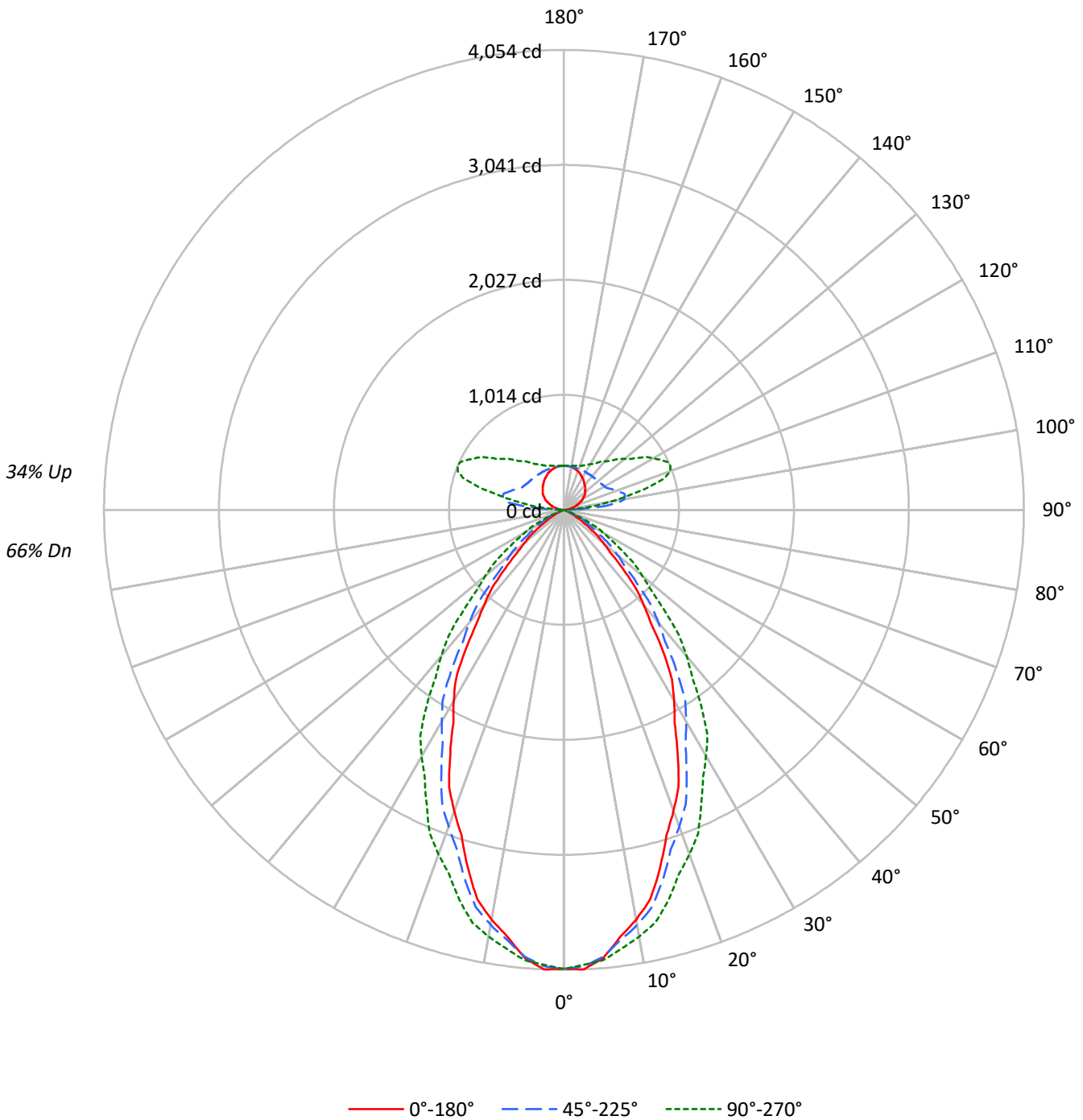
Lumens per Lamp: N/A
Luminaire Lumens: 7345.3 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66		
1	104	100	97	94	98	95	92	89	84	82	80	75	73	72	66	65	64	60		
2	96	90	85	81	91	86	81	77	77	73	71	69	66	64	61	59	58	54		
3	90	82	75	71	84	78	72	68	70	66	62	63	60	57	56	54	52	49		
4	83	74	67	62	79	71	65	60	64	59	56	58	54	51	52	49	47	44		
5	78	67	60	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40		
6	72	62	55	49	68	59	53	48	54	49	45	49	45	42	45	42	39	37		
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34		
8	63	52	45	41	60	50	44	39	46	41	37	43	38	35	39	36	33	31		
9	60	48	42	37	57	47	40	36	43	38	34	40	35	32	37	33	31	29		
10	56	45	38	34	53	43	37	33	40	35	32	37	33	30	34	31	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12440	12440	12440
5°	12240	12210	12300
10°	11453	11605	11929
15°	10412	10742	11340
20°	9242	9722	10574
25°	8048	8686	9715
30°	6894	7651	8902
35°	5716	6495	7920
40°	4392	5193	6749
45°	3175	3932	5430
50°	2163	2930	4307
55°	1406	2120	3347
60°	806	1493	2420
65°	214	911	1225
70°	105	281	352
75°	46	24	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	5.0
10°-20°	944.0	12.9
20°-30°	1181.8	16.1
30°-40°	1091.6	14.9
40°-50°	733.5	10.0
50°-60°	378.9	5.2
60°-70°	118.7	1.6
70°-80°	7.5	0.1
80°-90°	2.2	0.0
90°-100°	189.3	2.6
100°-110°	497.7	6.8
110°-120°	516.1	7.0
120°-130°	414.0	5.6
130°-140°	324.8	4.4
140°-150°	249.3	3.4
150°-160°	179.6	2.4
160°-170°	109.9	1.5
170°-180°	37.1	0.5
0°-30°	2495.0	34.0
0°-40°	3586.7	48.8
0°-60°	4699.1	64.0
0°-90°	4827.5	65.7
90°-120°	1203.2	16.4
90°-150°	2191.3	29.8
90°-180°	2518.0	34.3
0°-180°	7345.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4045	4045	4045	4045	4045	
5°	3965	3925	3955	3969	3984	368
15°	3270	3259	3374	3487	3562	911
25°	2372	2391	2560	2735	2863	1087
35°	1522	1561	1730	1934	2110	943
45°	730	774	904	1080	1248	573
55°	262	306	395	508	624	245
65°	29	56	125	151	168	50
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	2	7	20	10	10	2
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4045.1	4045.1	4045.1	4045.1	4045.1
2.5°	4054.4	4016.2	4026.3	4026.0	4015.3
5°	3964.8	3924.6	3955.0	3969.1	3984.4
7.5°	3797.3	3765.9	3824.3	3868.1	3899.8
10°	3667.4	3640.6	3716.3	3776.0	3820.0
12.5°	3517.1	3496.4	3587.9	3669.8	3726.1
15°	3270.1	3258.6	3373.8	3487.1	3561.7
17.5°	3005.5	3005.1	3136.6	3277.2	3367.2
20°	2823.9	2829.6	2970.7	3125.7	3231.0
22.5°	2642.3	2655.7	2806.3	2967.9	3088.5
25°	2371.8	2391.0	2559.7	2734.8	2863.0
27.5°	2112.0	2139.9	2317.4	2499.5	2655.6
30°	1941.3	1973.8	2154.6	2346.1	2506.9
32.5°	1773.8	1812.4	1988.7	2191.2	2355.0
35°	1522.5	1560.8	1730.0	1933.6	2109.6
37.5°	1263.0	1300.5	1465.8	1666.2	1856.4
40°	1093.9	1136.0	1293.6	1487.8	1681.0
42.5°	940.5	982.6	1130.7	1321.6	1504.1
45°	729.9	774.0	904.1	1080.2	1248.5
47.5°	555.4	603.2	717.4	876.7	1030.1
50°	452.1	499.9	612.5	752.9	900.2
52.5°	369.1	415.4	517.0	649.3	784.4
55°	262.2	306.2	395.3	507.6	624.3
57.5°	181.2	219.1	299.0	392.7	484.2
60°	131.1	167.5	242.7	318.7	393.4
62.5°	87.3	120.6	194.1	252.4	302.5
65°	29.4	56.1	125.2	151.1	168.3
67.5°	14.9	17.9	65.8	69.4	75.1
70°	11.7	11.7	31.3	33.4	39.1
72.5°	8.6	8.6	12.5	16.1	17.2
75°	3.9	3.9	2.0	0.0	0.0
77.5°	2.0	2.0	1.6	0.0	0.0
80°	2.0	2.0	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	1.5	4.0	2.0	2.0
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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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)