

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521101

Luminaire Tested: **SQ4-BB-075U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521101
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

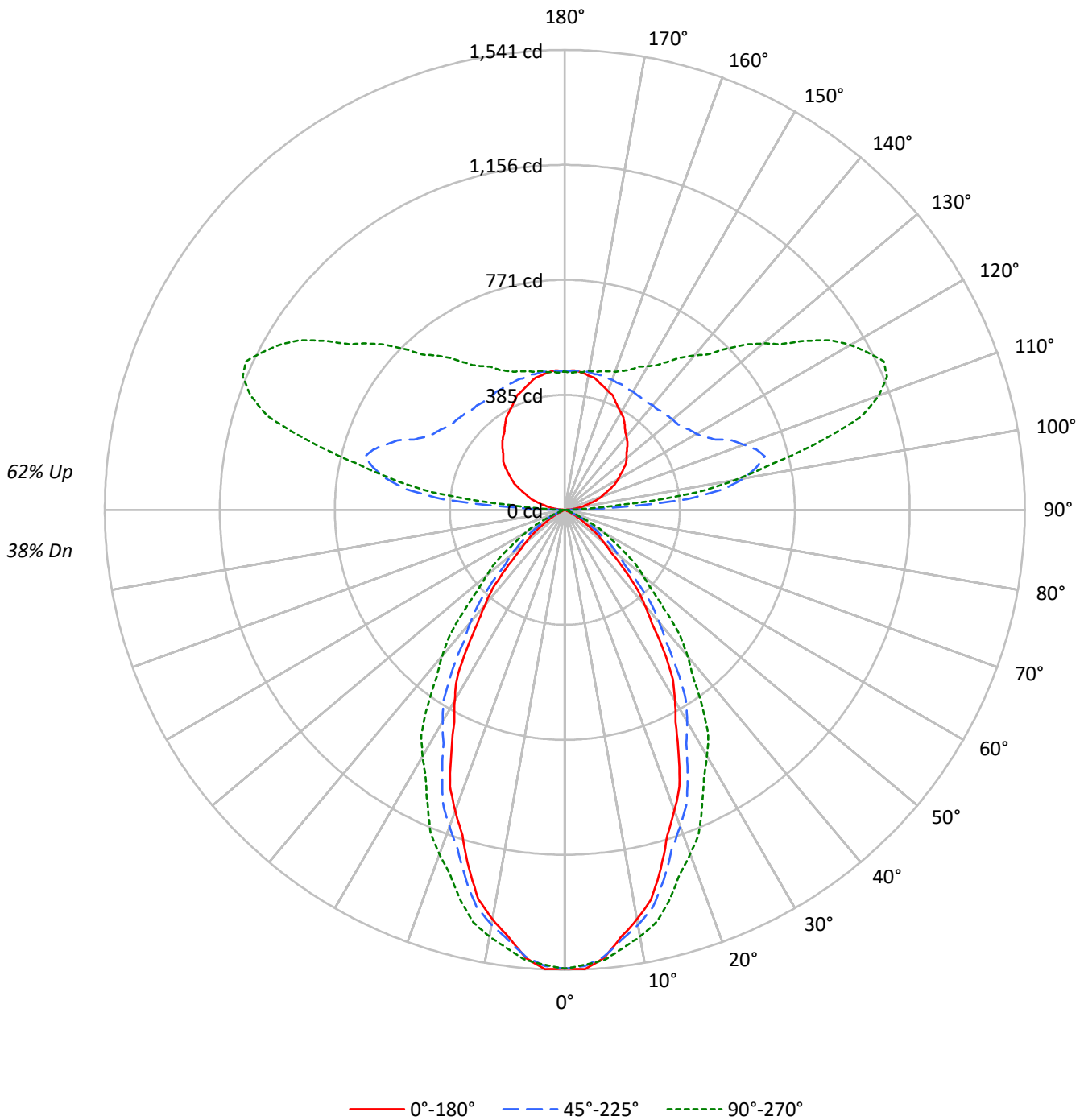
Lumens per Lamp: N/A
Luminaire Lumens: 4833.4 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.2
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	39	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	38	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	33	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	31	26	23	26	22	20	21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14183	14183	14183
5°	13954	13920	14024
10°	13057	13231	13600
15°	11870	12246	12928
20°	10536	11084	12055
25°	9176	9902	11076
30°	7859	8723	10150
35°	6517	7404	9030
40°	5007	5921	7694
45°	3619	4483	6191
50°	2466	3341	4910
55°	1604	2416	3815
60°	919	1701	2759
65°	245	1039	1397
70°	121	321	402
75°	53	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	2.9
10°-20°	358.8	7.4
20°-30°	449.1	9.3
30°-40°	414.8	8.6
40°-50°	278.8	5.8
50°-60°	144.0	3.0
60°-70°	45.1	0.9
70°-80°	2.8	0.1
80°-90°	0.0	0.0
90°-100°	238.8	4.9
100°-110°	577.2	11.9
110°-120°	615.6	12.7
120°-130°	498.6	10.3
130°-140°	386.0	8.0
140°-150°	294.5	6.1
150°-160°	213.2	4.4
160°-170°	131.3	2.7
170°-180°	44.5	0.9
0°-30°	948.2	19.6
0°-40°	1363.0	28.2
0°-60°	1785.8	36.9
0°-90°	1833.7	37.9
90°-120°	1431.6	29.6
90°-150°	2610.7	54.0
90°-180°	3000.0	62.1
0°-180°	4833.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1507	1491	1503	1508	1514	140
15°	1243	1238	1282	1325	1354	346
25°	901	909	973	1039	1088	413
35°	579	593	657	735	802	358
45°	277	294	344	410	474	218
55°	100	116	150	193	237	93
65°	11	21	48	57	64	19
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	24	120	409	266	186	26
105°	92	159	694	898	886	97
115°	169	216	557	1057	1178	167
125°	240	277	484	840	987	215
135°	295	330	464	663	762	228
145°	349	375	455	563	607	218
155°	400	418	461	499	517	185
165°	442	449	467	474	481	125
175°	468	466	468	464	463	44
180°	463	463	463	463	463	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.2	1537.2	1537.2	1537.2	1537.2
2.5°	1540.8	1526.2	1530.1	1530.0	1525.9
5°	1506.7	1491.4	1503.0	1508.3	1514.2
7.5°	1443.1	1431.1	1453.3	1470.0	1482.0
10°	1393.7	1383.5	1412.3	1435.0	1451.7
12.5°	1336.6	1328.7	1363.5	1394.6	1416.0
15°	1242.7	1238.3	1282.1	1325.2	1353.5
17.5°	1142.2	1142.0	1192.0	1245.4	1279.6
20°	1073.1	1075.3	1128.9	1187.8	1227.8
22.5°	1004.1	1009.2	1066.4	1127.9	1173.7
25°	901.4	908.6	972.7	1039.3	1088.0
27.5°	802.6	813.2	880.7	949.8	1009.2
30°	737.7	750.1	818.8	891.6	952.7
32.5°	674.1	688.8	755.7	832.7	895.0
35°	578.6	593.1	657.4	734.8	801.7
37.5°	480.0	494.2	557.0	633.2	705.5
40°	415.7	431.7	491.6	565.4	638.8
42.5°	357.4	373.4	429.7	502.2	571.6
45°	277.4	294.1	343.6	410.5	474.5
47.5°	211.1	229.2	272.6	333.2	391.5
50°	171.8	190.0	232.8	286.1	342.1
52.5°	140.3	157.9	196.5	246.7	298.1
55°	99.7	116.4	150.2	192.9	237.2
57.5°	68.9	83.3	113.6	149.2	184.0
60°	49.8	63.6	92.2	121.1	149.5
62.5°	33.2	45.8	73.8	95.9	115.0
65°	11.2	21.3	47.6	57.4	64.0
67.5°	5.7	6.8	25.0	26.4	28.6
70°	4.5	4.5	11.9	12.7	14.9
72.5°	3.3	3.3	4.8	6.1	6.5
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.6	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.8	64.6	152.3	74.0	50.2
95°	23.5	119.5	409.2	266.1	186.4
97.5°	41.8	132.4	538.9	519.2	445.7
100°	55.9	140.4	610.3	644.3	583.8
102.5°	69.3	147.6	657.4	748.4	712.6
105°	92.2	159.4	693.7	897.5	886.0
107.5°	114.8	173.3	672.3	1017.2	1044.2
110°	130.5	185.2	637.8	1068.7	1119.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.2	197.0	607.2	1081.3	1168.2
115°	168.8	215.8	557.3	1056.6	1178.4
117.5°	191.1	235.5	528.1	999.8	1142.5
120°	206.1	247.3	509.2	955.2	1104.8
122.5°	221.8	259.9	497.5	909.6	1057.0
125°	240.4	276.9	483.7	840.3	987.1
127.5°	258.8	293.2	474.1	781.6	910.6
130°	269.8	303.4	471.0	740.8	867.4
132.5°	280.0	315.2	466.3	711.3	818.7
135°	295.3	329.9	464.1	662.6	762.4
137.5°	309.9	344.6	457.2	629.7	704.9
140°	320.9	352.5	457.2	606.0	675.1
142.5°	331.8	363.5	453.3	585.3	643.7
145°	349.3	375.2	455.3	563.2	607.4
147.5°	365.6	390.7	454.1	537.7	574.2
150°	375.8	397.9	457.2	526.6	555.4
152.5°	386.8	408.1	456.5	514.7	540.5
155°	400.3	417.6	461.2	498.9	517.1
157.5°	416.6	431.4	460.2	492.8	503.6
160°	422.9	435.4	464.1	484.9	492.6
162.5°	433.1	444.0	462.5	482.5	487.1
165°	442.5	449.2	467.1	474.1	480.8
167.5°	454.1	458.5	465.9	473.5	473.7
170°	457.2	460.1	469.0	468.1	472.9
172.5°	462.7	464.9	466.7	468.8	465.9
175°	468.0	466.1	468.0	464.1	463.1
177.5°	467.1	467.1	465.5	463.8	460.0
180°	463.1	463.1	463.1	463.1	463.1

(END OF REPORT)