

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: P518305

Luminaire Tested: **SQ4-BB-025U-050D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518305
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-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

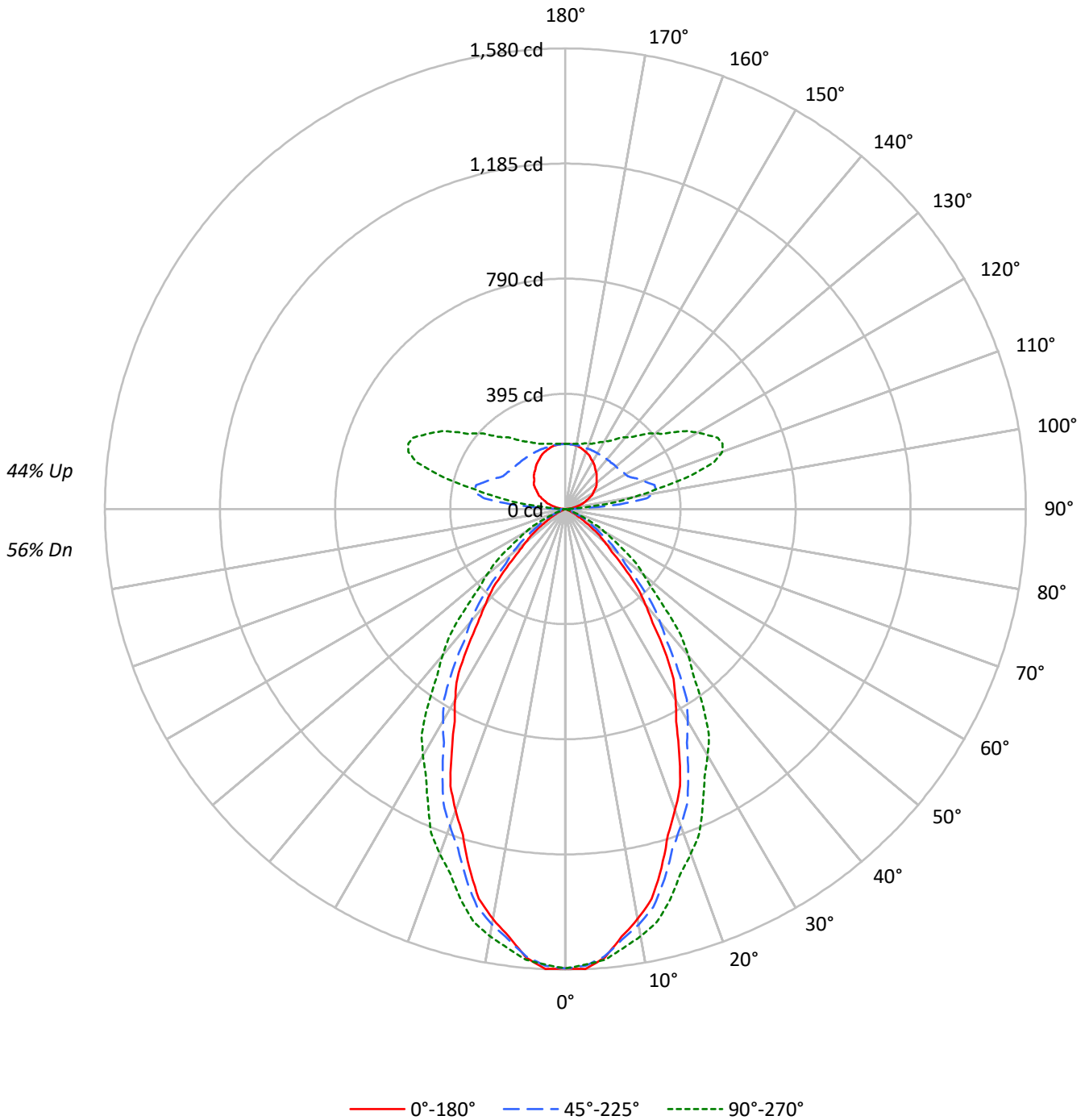
Lumens per Lamp: N/A
Luminaire Lumens: 3330.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.9
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									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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56	
1	101	98	94	92	94	91	89	86	79	77	76	68	67	66	58	57	56	52	
2	94	88	83	78	87	82	78	74	72	69	66	62	60	58	54	52	51	47	
3	87	79	73	68	81	74	69	64	65	61	58	57	54	52	49	47	46	42	
4	81	71	65	59	75	67	61	57	60	55	51	52	49	46	46	43	41	38	
5	75	65	58	53	70	61	55	50	55	50	46	48	45	42	42	40	37	35	
6	70	59	52	47	65	56	50	45	50	45	41	44	41	38	39	36	34	32	
7	65	54	47	42	61	51	45	41	46	41	37	41	37	34	37	34	31	29	
8	61	50	43	38	57	47	41	37	43	38	34	38	34	31	34	31	29	27	
9	57	46	39	35	54	44	38	34	40	35	31	36	32	29	32	29	27	25	
10	54	43	36	32	51	41	35	31	37	32	29	33	29	27	30	27	25	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9694	9694	9694
5°	9538	9515	9586
10°	8924	9044	9296
15°	8114	8371	8837
20°	7202	7576	8240
25°	6272	6769	7571
30°	5372	5962	6938
35°	4454	5062	6172
40°	3422	4047	5259
45°	2474	3064	4232
50°	1685	2284	3357
55°	1096	1651	2608
60°	629	1164	1886
65°	166	710	955
70°	83	219	275
75°	36	19	0
80°	28	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	4.3
10°-20°	367.8	11.0
20°-30°	460.5	13.8
30°-40°	425.3	12.8
40°-50°	285.8	8.6
50°-60°	147.6	4.4
60°-70°	46.2	1.4
70°-80°	2.9	0.1
80°-90°	1.3	0.0
90°-100°	108.9	3.3
100°-110°	286.4	8.6
110°-120°	297.0	8.9
120°-130°	238.2	7.2
130°-140°	186.9	5.6
140°-150°	143.5	4.3
150°-160°	103.3	3.1
160°-170°	63.2	1.9
170°-180°	21.4	0.6
0°-30°	972.2	29.2
0°-40°	1397.5	42.0
0°-60°	1831.0	55.0
0°-90°	1881.4	56.5
90°-120°	692.3	20.8
90°-150°	1261.0	37.9
90°-180°	1449.0	43.5
0°-180°	3330.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1545	1529	1541	1546	1552	143
15°	1274	1270	1315	1359	1388	355
25°	924	932	997	1066	1116	424
35°	593	608	674	753	822	367
45°	284	302	352	421	486	223
55°	102	119	154	198	243	95
65°	11	22	49	59	66	19
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	1	4	12	6	6	1
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.1	1576.1	1576.1	1576.1	1576.1
2.5°	1579.8	1564.9	1568.8	1568.7	1564.5
5°	1544.8	1529.2	1541.0	1546.5	1552.5
7.5°	1479.6	1467.3	1490.1	1507.2	1519.5
10°	1428.9	1418.5	1448.0	1471.3	1488.4
12.5°	1370.4	1362.3	1398.0	1429.9	1451.8
15°	1274.2	1269.7	1314.6	1358.7	1387.8
17.5°	1171.1	1170.9	1222.1	1276.9	1312.0
20°	1100.3	1102.5	1157.5	1217.9	1258.9
22.5°	1029.5	1034.8	1093.4	1156.4	1203.4
25°	924.2	931.6	997.4	1065.6	1115.5
27.5°	822.9	833.8	903.0	973.9	1034.7
30°	756.4	769.1	839.5	914.1	976.8
32.5°	691.1	706.2	774.9	853.8	917.6
35°	593.2	608.1	674.1	753.4	822.0
37.5°	492.1	506.7	571.1	649.2	723.3
40°	426.2	442.6	504.0	579.7	655.0
42.5°	366.5	382.9	440.6	514.9	586.1
45°	284.4	301.6	352.3	420.9	486.5
47.5°	216.4	235.0	279.5	341.6	401.4
50°	176.1	194.8	238.7	293.3	350.8
52.5°	143.8	161.9	201.5	253.0	305.6
55°	102.2	119.3	154.0	197.8	243.2
57.5°	70.6	85.4	116.5	153.0	188.6
60°	51.1	65.3	94.6	124.2	153.3
62.5°	34.0	47.0	75.6	98.4	117.9
65°	11.4	21.9	48.8	58.9	65.6
67.5°	5.8	7.0	25.6	27.0	29.3
70°	4.6	4.6	12.2	13.0	15.3
72.5°	3.4	3.4	4.9	6.3	6.7
75°	1.5	1.5	0.8	0.0	0.0
77.5°	0.8	0.8	0.6	0.0	0.0
80°	0.8	0.8	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.8	2.3	1.1	1.1
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)