

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: P518317

Luminaire Tested: **SQ4-BB-025U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518317
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-935-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

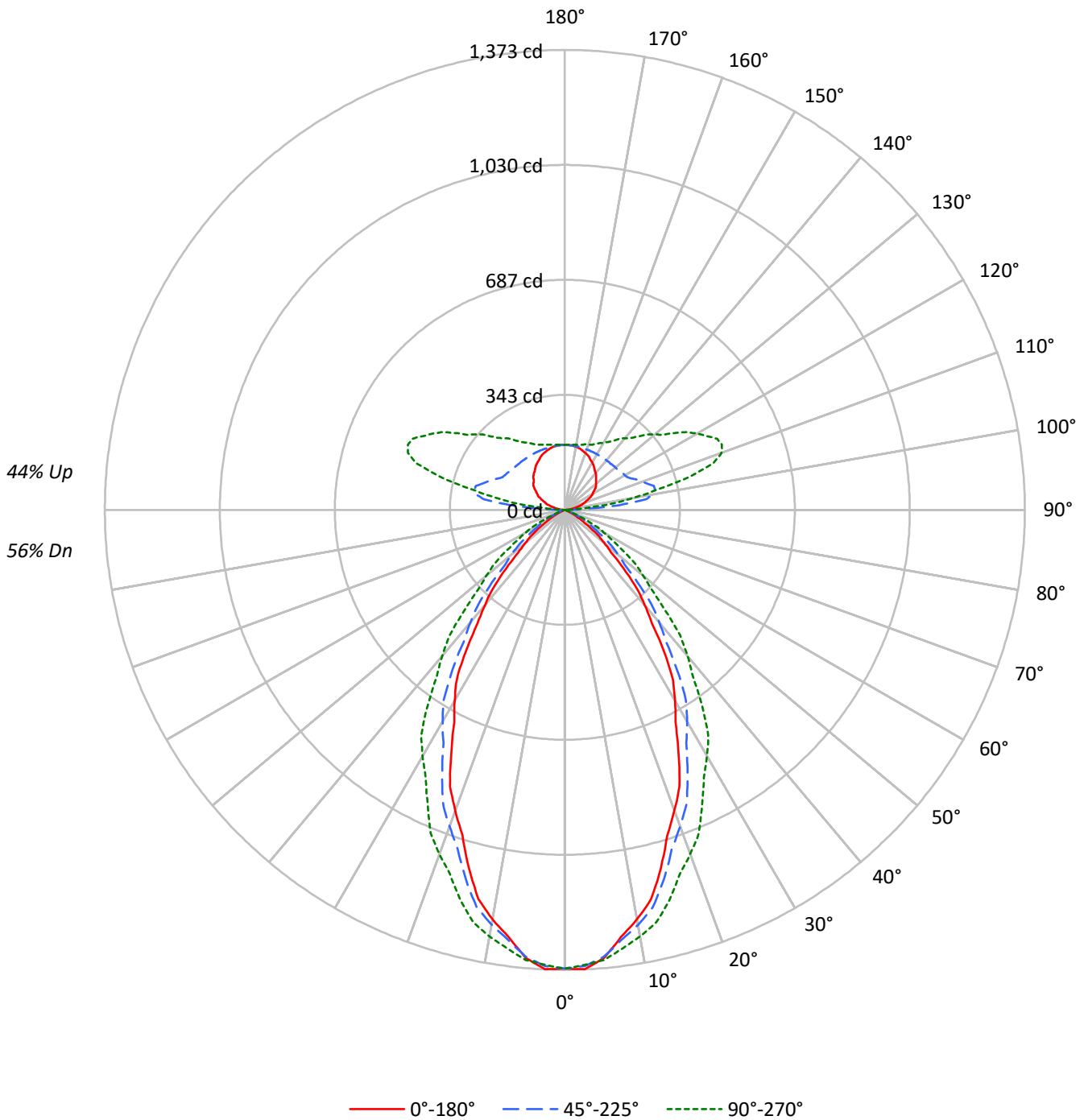
Lumens per Lamp: N/A
Luminaire Lumens: 2893.6 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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					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	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°	8424	8424	8424
5°	8288	8267	8329
10°	7755	7858	8078
15°	7050	7273	7678
20°	6258	6583	7160
25°	5450	5881	6578
30°	4668	5181	6028
35°	3871	4398	5363
40°	2974	3516	4569
45°	2149	2663	3677
50°	1464	1985	2917
55°	952	1435	2266
60°	546	1011	1639
65°	144	617	830
70°	72	191	239
75°	31	17	0
80°	25	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	4.3
10°-20°	319.6	11.0
20°-30°	400.1	13.8
30°-40°	369.6	12.8
40°-50°	248.3	8.6
50°-60°	128.3	4.4
60°-70°	40.2	1.4
70°-80°	2.5	0.1
80°-90°	1.1	0.0
90°-100°	94.7	3.3
100°-110°	248.9	8.6
110°-120°	258.1	8.9
120°-130°	207.0	7.2
130°-140°	162.4	5.6
140°-150°	124.6	4.3
150°-160°	89.8	3.1
160°-170°	54.9	1.9
170°-180°	18.6	0.6
0°-30°	844.7	29.2
0°-40°	1214.3	42.0
0°-60°	1590.9	55.0
0°-90°	1634.7	56.5
90°-120°	601.6	20.8
90°-150°	1095.7	37.9
90°-180°	1259.0	43.5
0°-180°	2893.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1342	1329	1339	1344	1349	124
15°	1107	1103	1142	1181	1206	308
25°	803	810	867	926	969	368
35°	516	528	586	655	714	319
45°	247	262	306	366	423	194
55°	89	104	134	172	211	83
65°	10	19	42	51	57	17
75°	1	1	1	0	0	2
85°	0	0	0	0	0	0
90°	1	4	10	5	5	1
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.5	1369.5	1369.5	1369.5	1369.5
2.5°	1372.6	1359.7	1363.1	1363.0	1359.4
5°	1342.3	1328.7	1339.0	1343.7	1348.9
7.5°	1285.6	1275.0	1294.7	1309.6	1320.3
10°	1241.6	1232.5	1258.2	1278.4	1293.3
12.5°	1190.7	1183.7	1214.7	1242.4	1261.5
15°	1107.1	1103.2	1142.2	1180.6	1205.8
17.5°	1017.5	1017.4	1061.9	1109.5	1140.0
20°	956.0	958.0	1005.7	1058.2	1093.9
22.5°	894.6	899.1	950.1	1004.8	1045.6
25°	803.0	809.5	866.6	925.9	969.3
27.5°	715.0	724.5	784.6	846.2	899.1
30°	657.2	668.3	729.5	794.3	848.7
32.5°	600.5	613.6	673.3	741.8	797.3
35°	515.5	528.4	585.7	654.6	714.2
37.5°	427.6	440.3	496.2	564.1	628.5
40°	370.4	384.6	437.9	503.7	569.1
42.5°	318.4	332.7	382.8	447.4	509.2
45°	247.1	262.0	306.1	365.7	422.7
47.5°	188.0	204.2	242.9	296.8	348.8
50°	153.0	169.2	207.4	254.9	304.8
52.5°	125.0	140.6	175.0	219.8	265.5
55°	88.8	103.7	133.8	171.8	211.3
57.5°	61.4	74.2	101.2	132.9	163.9
60°	44.4	56.7	82.2	107.9	133.2
62.5°	29.5	40.8	65.7	85.5	102.4
65°	9.9	19.0	42.4	51.1	57.0
67.5°	5.0	6.1	22.3	23.5	25.4
70°	4.0	4.0	10.6	11.3	13.3
72.5°	2.9	2.9	4.2	5.4	5.8
75°	1.3	1.3	0.7	0.0	0.0
77.5°	0.7	0.7	0.5	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°	0.2	0.7	2.0	1.0	1.0
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)