

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: P518316

Luminaire Tested: **SQ4-BB-025U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518316
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-4
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

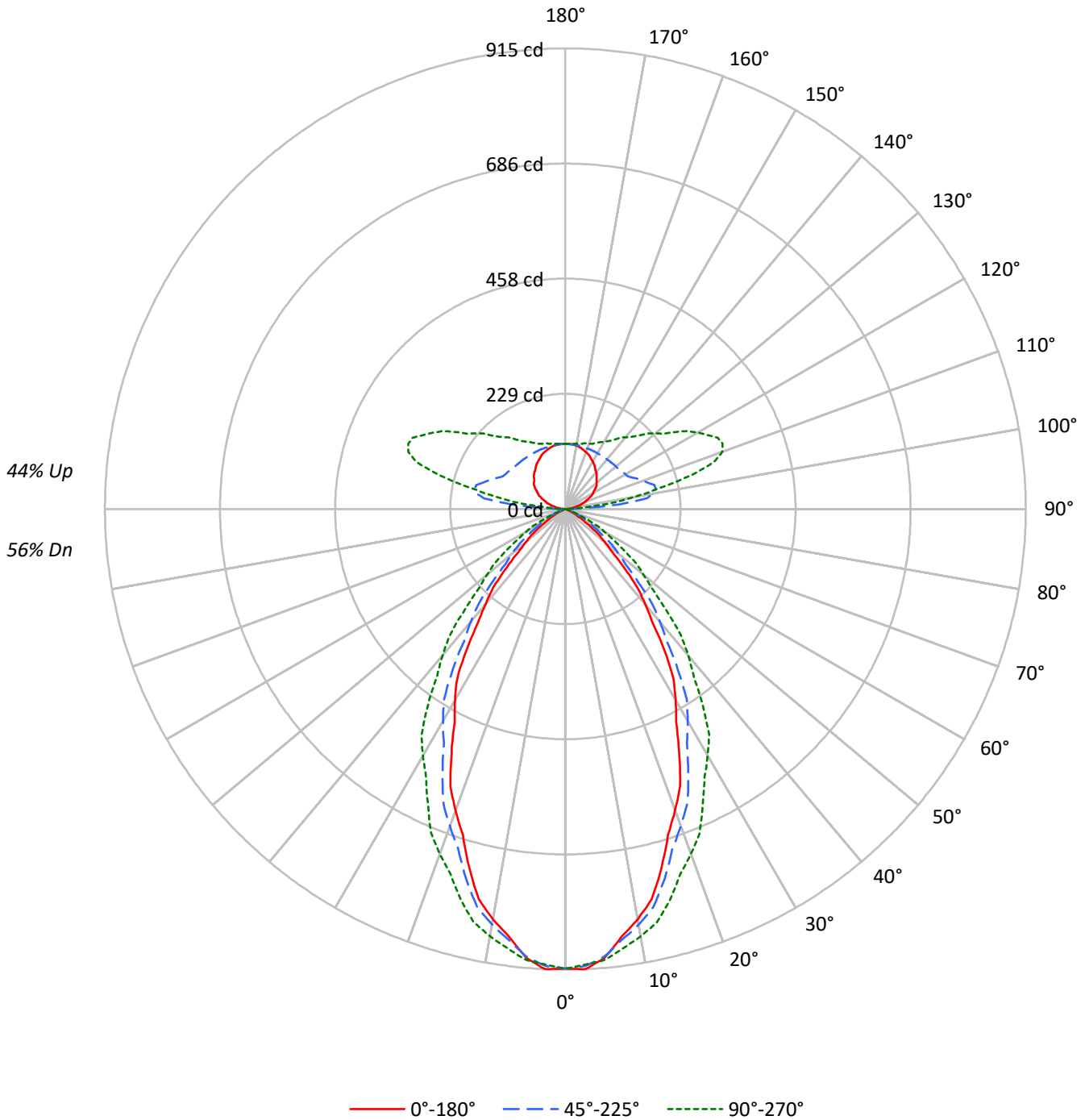
Lumens per Lamp: N/A
Luminaire Lumens: 1929.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 22.1
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	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	8268	8329
10°	7754	7858	8078
15°	7050	7274	7679
20°	6258	6583	7160
25°	5449	5881	6578
30°	4668	5181	6028
35°	3870	4398	5362
40°	2974	3517	4569
45°	2150	2663	3677
50°	1464	1984	2917
55°	952	1435	2266
60°	546	1011	1639
65°	144	618	830
70°	73	192	237
75°	32	14	0
80°	21	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	4.3
10°-20°	213.1	11.0
20°-30°	266.7	13.8
30°-40°	246.4	12.8
40°-50°	165.6	8.6
50°-60°	85.5	4.4
60°-70°	26.8	1.4
70°-80°	1.7	0.1
80°-90°	0.7	0.0
90°-100°	63.1	3.3
100°-110°	165.9	8.6
110°-120°	172.0	8.9
120°-130°	138.0	7.2
130°-140°	108.3	5.6
140°-150°	83.1	4.3
150°-160°	59.9	3.1
160°-170°	36.6	1.9
170°-180°	12.4	0.6
0°-30°	563.1	29.2
0°-40°	809.5	42.0
0°-60°	1060.6	55.0
0°-90°	1089.8	56.5
90°-120°	401.1	20.8
90°-150°	730.4	37.9
90°-180°	839.0	43.5
0°-180°	1929.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	913	913	913	913	913	
5°	895	886	893	896	899	83
15°	738	736	762	787	804	206
25°	535	540	578	617	646	245
35°	344	352	390	436	476	213
45°	165	175	204	244	282	129
55°	59	69	89	115	141	55
65°	7	13	28	34	38	11
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	913.0	913.0	913.0	913.0	913.0
2.5°	915.1	906.5	908.7	908.7	906.3
5°	894.9	885.8	892.7	895.8	899.3
7.5°	857.1	850.0	863.2	873.0	880.2
10°	827.7	821.7	838.8	852.2	862.2
12.5°	793.8	789.1	809.8	828.3	841.0
15°	738.1	735.5	761.5	787.0	803.9
17.5°	678.4	678.3	707.9	739.7	760.0
20°	637.4	638.7	670.5	705.5	729.2
22.5°	596.4	599.4	633.4	669.9	697.1
25°	535.3	539.6	577.7	617.3	646.2
27.5°	476.7	483.0	523.1	564.1	599.4
30°	438.2	445.5	486.3	529.5	565.8
32.5°	400.3	409.1	448.8	494.6	531.5
35°	343.6	352.3	390.5	436.4	476.1
37.5°	285.1	293.5	330.8	376.1	419.0
40°	246.9	256.4	292.0	335.8	379.4
42.5°	212.3	221.8	255.2	298.3	339.5
45°	164.8	174.7	204.1	243.8	281.8
47.5°	125.4	136.1	161.9	197.9	232.5
50°	102.0	112.8	138.2	169.9	203.2
52.5°	83.3	93.8	116.7	146.5	177.0
55°	59.2	69.1	89.2	114.6	140.9
57.5°	40.9	49.5	67.5	88.6	109.3
60°	29.6	37.8	54.8	71.9	88.8
62.5°	19.7	27.2	43.8	57.0	68.3
65°	6.6	12.7	28.3	34.1	38.0
67.5°	3.4	4.0	14.8	15.7	17.0
70°	2.7	2.7	7.1	7.5	8.8
72.5°	1.9	1.9	2.8	3.6	3.9
75°	0.9	0.9	0.4	0.0	0.0
77.5°	0.4	0.4	0.4	0.0	0.0
80°	0.4	0.4	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	0.5	1.3	0.7	0.7
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)