

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: P519164

Luminaire Tested: **SQ4-WB-075U-050D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519164
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

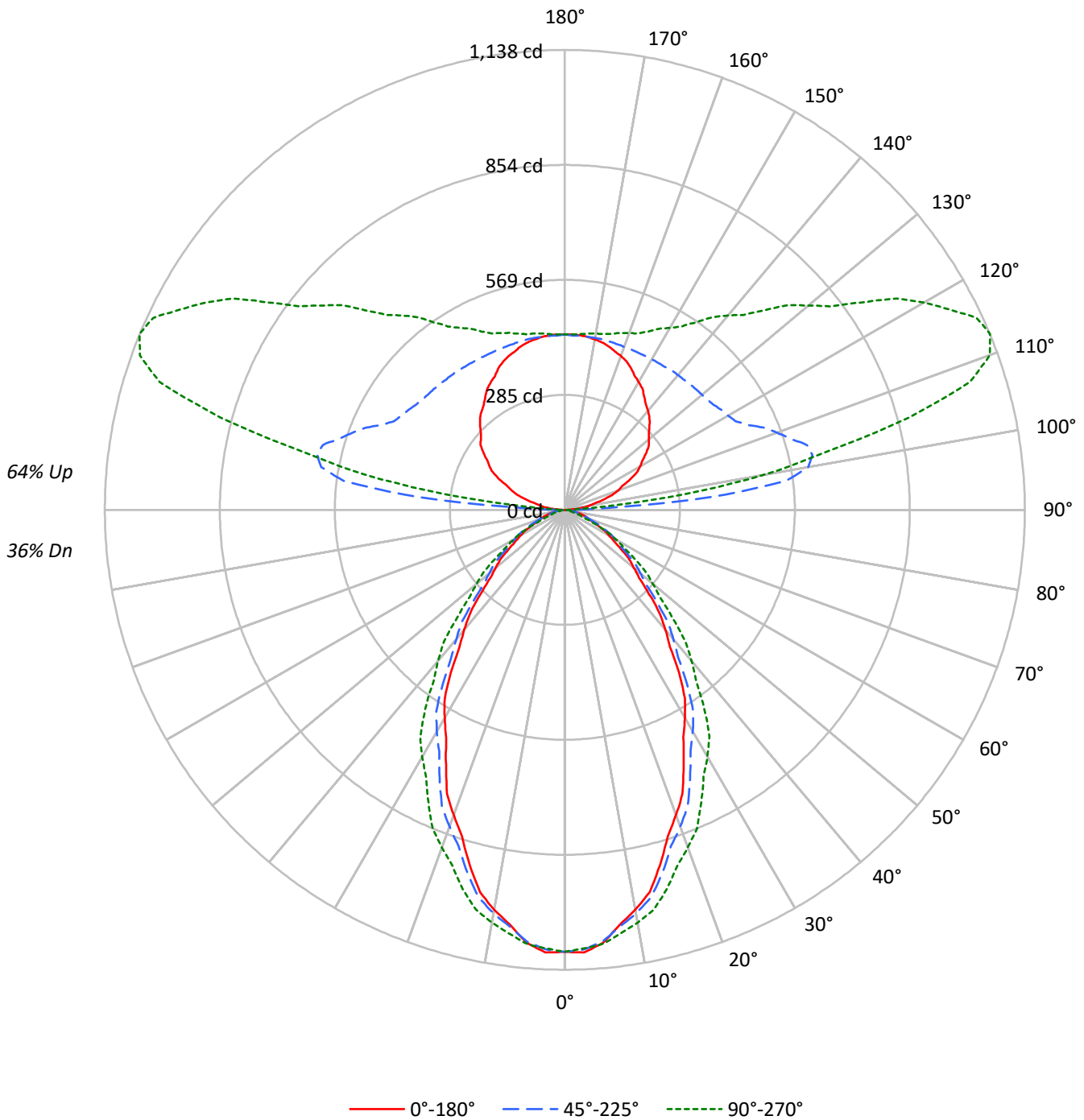
Lumens per Lamp: N/A
Luminaire Lumens: 4420.4 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 34.7
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	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	92	88	85	86	83	80	78	67	65	64	53	52	50	40	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	35	33	28
3	80	72	65	60	73	66	60	55	54	50	46	43	40	38	33	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	39	36	33	30	28	26	22
5	68	58	50	45	62	53	46	41	44	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	40	35	31	32	29	26	25	23	21	18
7	58	47	40	35	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	40	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	31	26	23	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	18	19	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10090	10090	10090
5°	9963	9928	9986
10°	9414	9499	9720
15°	8690	8892	9291
20°	7892	8188	8730
25°	7078	7464	8134
30°	6329	6743	7515
35°	5535	5935	6783
40°	4659	5028	5871
45°	3844	4177	4902
50°	3209	3499	4085
55°	2725	3003	3373
60°	2329	2604	2692
65°	1853	2190	1740
70°	1643	1708	1060
75°	1522	1387	649
80°	1403	1275	563
85°	1270	1164	455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	2.3
10°-20°	260.9	5.9
20°-30°	338.0	7.6
30°-40°	330.9	7.5
40°-50°	253.3	5.7
50°-60°	168.8	3.8
60°-70°	92.1	2.1
70°-80°	38.4	0.9
80°-90°	12.0	0.3
90°-100°	204.6	4.6
100°-110°	562.9	12.7
110°-120°	581.0	13.1
120°-130°	465.5	10.5
130°-140°	365.6	8.3
140°-150°	280.2	6.3
150°-160°	201.4	4.6
160°-170°	123.2	2.8
170°-180°	41.5	0.9
0°-30°	699.2	15.8
0°-40°	1030.1	23.3
0°-60°	1452.2	32.9
0°-90°	1594.7	36.1
90°-120°	1348.4	30.5
90°-150°	2459.7	55.6
90°-180°	2826.0	63.9
0°-180°	4420.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1094	1094	1094	1094	1094	
5°	1076	1065	1072	1074	1078	100
15°	910	906	931	956	973	254
25°	695	697	733	765	799	320
35°	491	494	527	562	602	305
45°	295	300	320	344	376	230
55°	169	176	187	194	210	154
65°	85	92	100	88	80	88
75°	43	43	39	27	18	46
85°	12	12	11	7	4	13
90°	1	4	6	8	8	3
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1093.6	1093.6	1093.6	1093.6	1093.6
2.5°	1096.3	1086.5	1089.0	1088.9	1085.9
5°	1075.8	1065.1	1072.0	1074.5	1078.2
7.5°	1035.9	1027.8	1040.4	1049.8	1057.4
10°	1004.8	997.8	1013.9	1027.6	1037.5
12.5°	968.7	962.8	982.8	1001.2	1014.0
15°	909.8	906.5	930.9	956.3	972.7
17.5°	846.8	845.2	873.2	902.7	923.7
20°	803.8	803.3	834.0	864.8	889.2
22.5°	760.4	761.4	793.7	825.7	853.5
25°	695.3	697.2	733.2	765.2	799.0
27.5°	635.1	636.0	673.2	707.0	743.0
30°	594.1	596.4	632.9	667.9	705.4
32.5°	553.0	555.7	591.5	627.6	665.9
35°	491.4	493.7	526.9	562.3	602.2
37.5°	427.8	431.0	460.5	494.0	533.2
40°	386.8	391.5	417.5	449.1	487.5
42.5°	347.2	353.0	377.2	407.1	441.9
45°	294.6	300.3	320.1	344.3	375.7
47.5°	249.3	255.8	271.0	291.9	318.7
50°	223.6	229.7	243.8	259.2	284.6
52.5°	201.0	207.1	219.6	231.5	253.1
55°	169.4	176.4	186.7	193.7	209.7
57.5°	143.5	150.2	158.4	161.5	171.2
60°	126.2	133.7	141.1	140.7	145.9
62.5°	110.5	116.8	124.2	119.1	119.4
65°	84.9	92.0	100.3	87.6	79.7
67.5°	68.6	70.1	78.7	61.1	51.6
70°	60.9	60.9	63.3	47.3	39.3
72.5°	53.6	53.6	51.4	38.5	30.1
75°	42.7	42.7	38.9	26.7	18.2
77.5°	32.9	32.5	29.8	19.9	13.2
80°	26.4	26.4	24.0	15.7	10.6
82.5°	20.6	20.6	18.6	12.3	7.9
85°	12.0	12.0	11.0	7.1	4.3
87.5°	4.4	4.9	5.1	4.0	3.6
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)