

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: P518972

Luminaire Tested: **SQ4-WB-025U-050D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518972
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

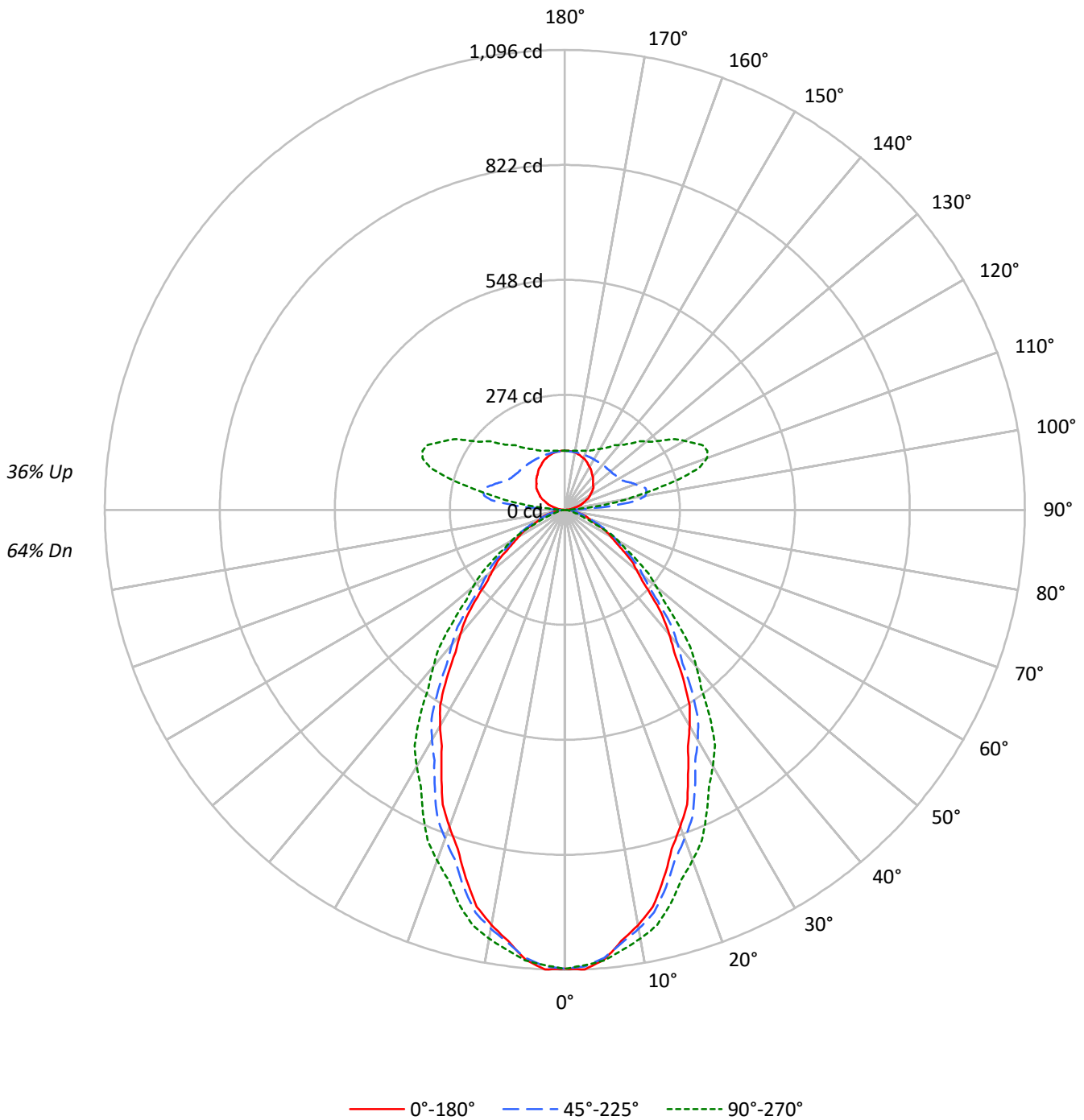
Lumens per Lamp: N/A
Luminaire Lumens: 2506.1 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64
1	102	98	95	92	96	93	90	87	82	80	78	72	70	69	63	62	61	56
2	94	88	82	78	89	83	78	74	74	70	67	65	62	60	57	55	54	50
3	87	79	72	67	82	74	68	64	66	62	58	59	56	53	52	50	47	44
4	81	71	63	58	76	67	61	56	60	55	51	54	50	47	48	45	42	39
5	75	64	56	51	70	61	54	49	55	49	45	49	45	41	44	41	38	35
6	69	58	51	45	65	55	48	44	50	44	40	45	41	37	40	37	34	32
7	65	53	46	40	61	51	44	39	46	40	36	42	37	34	37	34	31	29
8	60	49	41	36	57	47	40	35	42	37	33	38	34	31	35	31	28	26
9	57	45	38	33	53	43	37	32	39	34	30	36	31	28	32	29	26	24
10	53	42	35	30	50	40	34	29	37	31	28	33	29	26	30	27	24	22

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	4.0
10°-20°	260.9	10.4
20°-30°	338.0	13.5
30°-40°	330.9	13.2
40°-50°	253.3	10.1
50°-60°	168.8	6.7
60°-70°	92.1	3.7
70°-80°	38.4	1.5
80°-90°	11.6	0.5
90°-100°	68.6	2.7
100°-110°	180.2	7.2
110°-120°	186.9	7.5
120°-130°	149.9	6.0
130°-140°	117.6	4.7
140°-150°	90.3	3.6
150°-160°	65.0	2.6
160°-170°	39.8	1.6
170°-180°	13.4	0.5
0°-30°	699.2	27.9
0°-40°	1030.1	41.1
0°-60°	1452.2	57.9
0°-90°	1594.3	63.6
90°-120°	435.7	17.4
90°-150°	793.5	31.7
90°-180°	912.0	36.4
0°-180°	2506.1	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	3	7	4	4	1
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

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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	4.8	5.3	3.0	2.6
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)