

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: P518984

Luminaire Tested: **SQ4-WB-025U-050D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518984
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-930-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

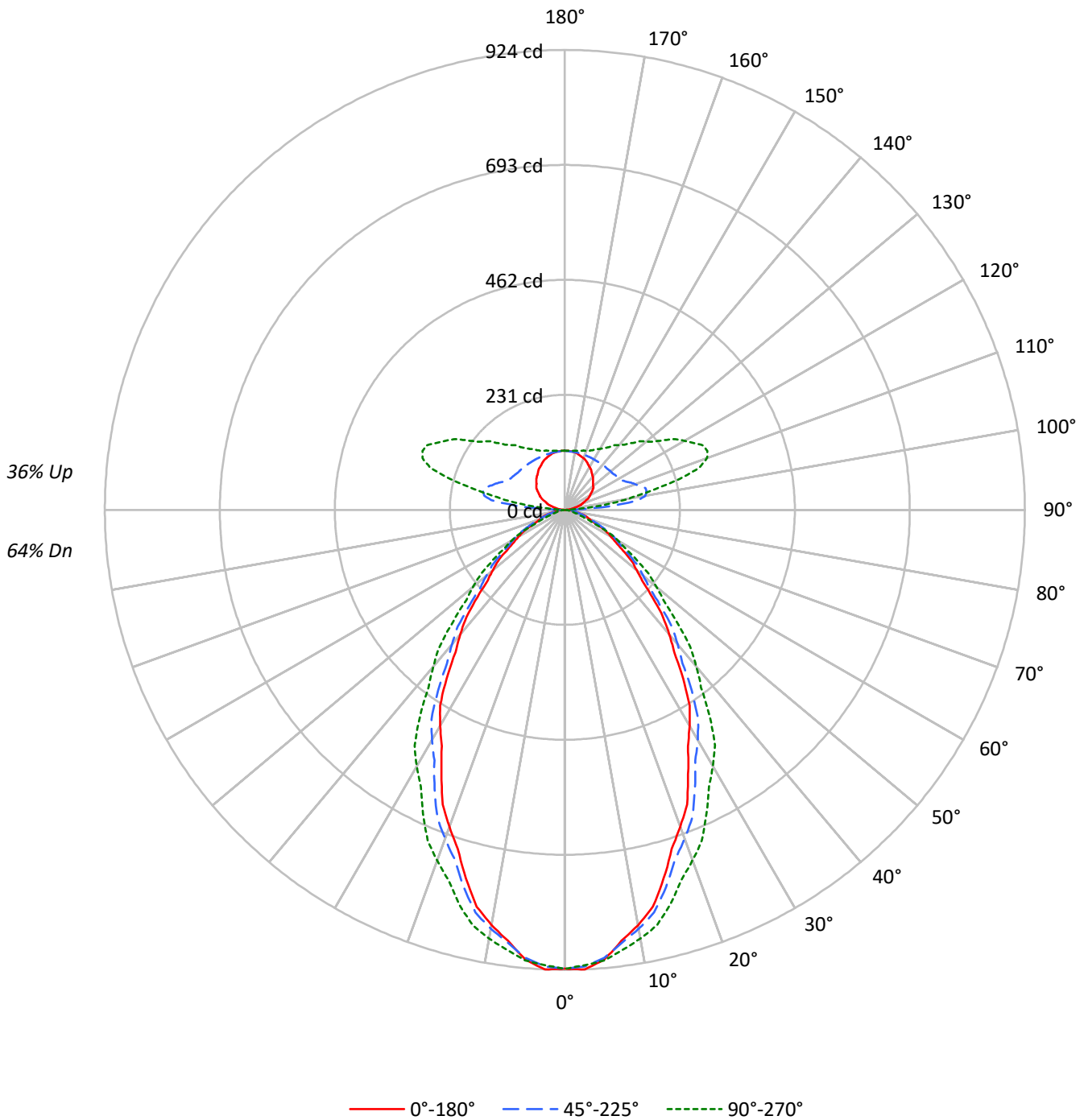
Lumens per Lamp: N/A
Luminaire Lumens: 2112.8 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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				
RC	80					70					50					30				
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°	8507	8507	8507
5°	8400	8370	8419
10°	7936	8008	8194
15°	7326	7496	7832
20°	6653	6903	7360
25°	5968	6293	6857
30°	5335	5685	6336
35°	4666	5003	5718
40°	3928	4239	4950
45°	3241	3520	4134
50°	2706	2950	3443
55°	2297	2532	2844
60°	1963	2194	2270
65°	1563	1847	1467
70°	1387	1440	896
75°	1283	1169	549
80°	1185	1073	473
85°	1069	984	381



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	4.0
10°-20°	220.0	10.4
20°-30°	284.9	13.5
30°-40°	279.0	13.2
40°-50°	213.6	10.1
50°-60°	142.3	6.7
60°-70°	77.7	3.7
70°-80°	32.4	1.5
80°-90°	9.8	0.5
90°-100°	57.8	2.7
100°-110°	151.9	7.2
110°-120°	157.6	7.5
120°-130°	126.4	6.0
130°-140°	99.2	4.7
140°-150°	76.1	3.6
150°-160°	54.8	2.6
160°-170°	33.5	1.6
170°-180°	11.3	0.5
0°-30°	589.4	27.9
0°-40°	868.4	41.1
0°-60°	1224.3	57.9
0°-90°	1344.1	63.6
90°-120°	367.3	17.4
90°-150°	669.0	31.7
90°-180°	769.0	36.4
0°-180°	2112.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	907	898	904	906	909	84
15°	767	764	785	806	820	214
25°	586	588	618	645	674	270
35°	414	416	444	474	508	258
45°	248	253	270	290	317	194
55°	143	149	157	163	177	129
65°	72	78	85	74	67	74
75°	36	36	33	22	15	38
85°	10	10	9	6	4	11
90°	1	2	6	3	3	1
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	922.0	922.0	922.0	922.0	922.0
2.5°	924.2	916.0	918.1	918.0	915.5
5°	907.0	897.9	903.8	905.9	909.0
7.5°	873.3	866.5	877.1	885.1	891.5
10°	847.1	841.2	854.8	866.3	874.6
12.5°	816.7	811.7	828.6	844.1	854.9
15°	767.0	764.3	784.8	806.2	820.0
17.5°	713.9	712.5	736.1	761.0	778.8
20°	677.6	677.2	703.1	729.1	749.6
22.5°	641.0	641.9	669.1	696.1	719.5
25°	586.2	587.8	618.2	645.1	673.6
27.5°	535.5	536.2	567.6	596.0	626.4
30°	500.8	502.8	533.6	563.0	594.7
32.5°	466.2	468.5	498.6	529.1	561.4
35°	414.3	416.2	444.2	474.1	507.7
37.5°	360.7	363.4	388.2	416.5	449.5
40°	326.1	330.0	352.0	378.6	411.0
42.5°	292.7	297.6	318.0	343.2	372.5
45°	248.4	253.1	269.8	290.3	316.8
47.5°	210.2	215.7	228.5	246.1	268.7
50°	188.5	193.7	205.5	218.5	239.9
52.5°	169.4	174.6	185.1	195.2	213.4
55°	142.8	148.7	157.4	163.3	176.8
57.5°	121.0	126.7	133.5	136.2	144.3
60°	106.4	112.7	118.9	118.6	123.0
62.5°	93.1	98.5	104.7	100.4	100.7
65°	71.6	77.5	84.6	73.9	67.2
67.5°	57.9	59.1	66.3	51.5	43.5
70°	51.4	51.4	53.4	39.9	33.2
72.5°	45.2	45.2	43.4	32.4	25.4
75°	36.0	36.0	32.8	22.5	15.4
77.5°	27.8	27.4	25.1	16.8	11.2
80°	22.3	22.3	20.2	13.3	8.9
82.5°	17.4	17.4	15.7	10.4	6.6
85°	10.1	10.1	9.3	6.0	3.6
87.5°	3.7	4.0	4.5	2.5	2.2
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)