

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521742

Luminaire Tested: **SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521742  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

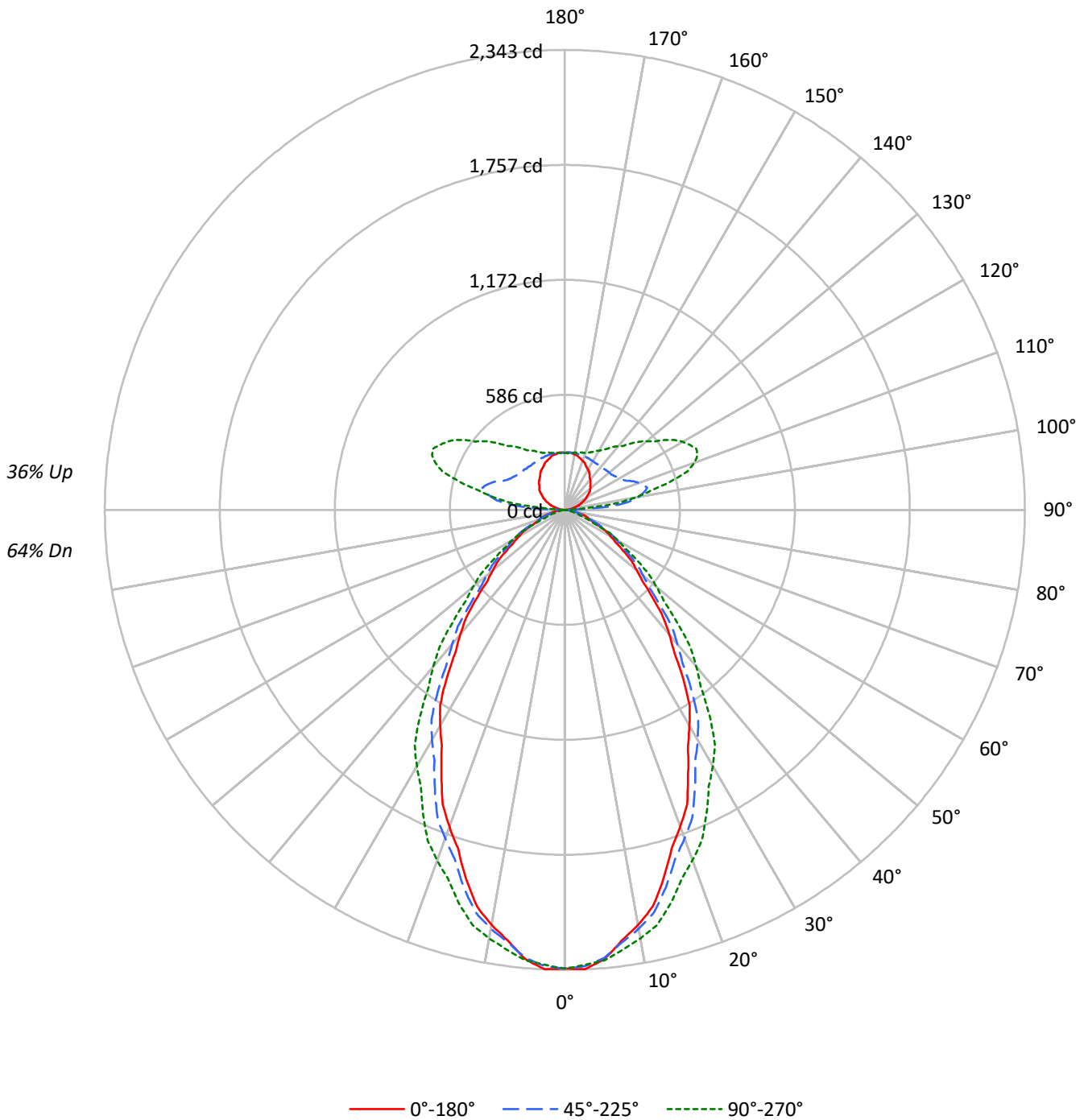
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5286.2 lumens  
Efficiency: N/A  
Efficacy: 93.2 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): 56.7  
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	50	30	10	0	
RCR																						
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64				
1	102	99	95	92	96	93	90	87	82	80	78	73	71	70	64	62	61	57				
2	95	88	82	78	89	83	78	74	74	70	67	66	63	61	58	56	54	50				
3	87	79	72	67	82	75	69	64	67	62	58	59	56	53	53	50	48	45				
4	81	71	64	58	76	67	61	56	60	55	51	54	50	47	48	45	43	40				
5	75	64	57	51	70	61	54	49	55	50	45	49	45	42	44	41	38	36				
6	70	58	51	45	66	56	49	44	50	45	41	45	41	38	41	37	35	32				
7	65	53	46	41	61	51	44	39	46	41	37	42	37	34	38	34	32	29				
8	61	49	42	37	57	47	40	35	43	37	33	39	34	31	35	32	29	27				
9	57	45	38	33	54	43	37	32	40	34	30	36	32	28	33	29	26	25				
10	53	42	35	30	51	40	34	30	37	31	28	34	29	26	31	27	24	23				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21561	21561	21561
5°	21292	21216	21339
10°	20116	20299	20769
15°	18570	19001	19853
20°	16864	17498	18656
25°	15125	15950	17380
30°	13525	14409	16058
35°	11826	12681	14495
40°	9954	10744	12547
45°	8215	8923	10476
50°	6858	7477	8728
55°	5823	6416	7208
60°	4977	5563	5752
65°	3962	4678	3716
70°	3512	3652	2269
75°	3255	2962	1390
80°	2997	2726	1201
85°	2710	2498	974



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.4	4.1
10°-20°	557.5	10.5
20°-30°	722.2	13.7
30°-40°	707.2	13.4
40°-50°	541.3	10.2
50°-60°	360.7	6.8
60°-70°	196.8	3.7
70°-80°	82.0	1.6
80°-90°	23.2	0.4
90°-100°	149.8	2.8
100°-110°	361.9	6.8
110°-120°	386.0	7.3
120°-130°	312.7	5.9
130°-140°	242.1	4.6
140°-150°	184.7	3.5
150°-160°	133.7	2.5
160°-170°	82.3	1.6
170°-180°	27.9	0.5
0°-30°	1494.0	28.3
0°-40°	2201.2	41.6
0°-60°	3103.2	58.7
0°-90°	3405.3	64.4
90°-120°	897.7	17.0
90°-150°	1637.1	31.0
90°-180°	1881.0	35.6
0°-180°	5286.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2299	2276	2291	2296	2304	214
15°	1944	1937	1989	2043	2078	543
25°	1486	1490	1567	1635	1707	683
35°	1050	1055	1126	1202	1287	653
45°	630	642	684	736	803	491
55°	362	377	399	414	448	328
65°	182	196	214	187	170	189
75°	91	91	83	57	39	97
85°	26	26	24	15	9	28
90°	0	0	0	0	0	2
95°	15	75	257	167	117	17
105°	58	100	435	563	556	61
115°	106	135	350	663	739	105
125°	151	174	303	527	619	135
135°	185	207	291	416	478	143
145°	219	235	286	353	381	137
155°	251	262	289	313	324	116
165°	278	282	293	297	302	78
175°	294	292	294	291	290	28
180°	290	290	290	290	290	



TEST NUMBER: P521742

CATALOG NUMBER: SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2336.9	2336.9	2336.9	2336.9	2336.9
2.5°	2342.6	2321.8	2327.1	2326.9	2320.5
5°	2299.0	2275.9	2290.8	2296.1	2304.1
7.5°	2213.6	2196.2	2223.3	2243.3	2259.6
10°	2147.2	2132.2	2166.7	2195.9	2216.9
12.5°	2070.1	2057.5	2100.2	2139.4	2166.9
15°	1944.2	1937.1	1989.3	2043.4	2078.5
17.5°	1809.4	1806.0	1865.8	1929.0	1973.9
20°	1717.6	1716.6	1782.2	1847.9	1900.1
22.5°	1624.9	1627.1	1696.0	1764.4	1823.8
25°	1485.8	1489.8	1566.8	1635.1	1707.3
27.5°	1357.2	1359.0	1438.6	1510.7	1587.7
30°	1269.5	1274.5	1352.5	1427.1	1507.3
32.5°	1181.7	1187.5	1263.9	1341.0	1422.9
35°	1050.0	1055.0	1125.9	1201.7	1286.9
37.5°	914.3	921.1	984.0	1055.6	1139.4
40°	826.5	836.5	892.1	959.6	1041.8
42.5°	742.0	754.4	806.0	870.0	944.2
45°	629.6	641.6	683.9	735.7	802.9
47.5°	532.8	546.6	579.1	623.7	681.1
50°	477.8	490.9	520.9	553.9	608.1
52.5°	429.4	442.5	469.2	494.7	540.8
55°	362.0	377.0	398.9	414.0	448.1
57.5°	306.6	321.0	338.4	345.2	365.9
60°	269.7	285.7	301.5	300.7	311.7
62.5°	236.0	249.7	265.4	254.5	255.1
65°	181.5	196.5	214.3	187.3	170.2
67.5°	146.6	149.8	168.2	130.6	110.3
70°	130.2	130.2	135.4	101.1	84.1
72.5°	114.6	114.6	109.9	82.2	64.4
75°	91.3	91.3	83.1	57.0	39.0
77.5°	70.3	69.5	63.6	42.5	28.3
80°	56.4	56.4	51.3	33.6	22.6
82.5°	44.1	44.1	39.8	26.2	16.8
85°	25.6	25.6	23.6	15.2	9.2
87.5°	9.0	9.0	8.2	4.9	4.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.5	95.5	46.4	31.5
95°	14.8	74.9	256.6	166.8	116.9
97.5°	26.2	83.0	337.9	325.6	279.5
100°	35.1	88.0	382.7	404.0	366.1
102.5°	43.4	92.5	412.2	469.3	446.8
105°	57.8	100.0	435.0	562.8	555.6
107.5°	72.0	108.7	421.6	637.8	654.8
110°	81.8	116.1	399.9	670.2	702.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	91.7	123.6	380.7	678.1	732.6
115°	105.8	135.3	349.5	662.6	739.0
117.5°	119.9	147.7	331.2	626.9	716.4
120°	129.2	155.1	319.3	599.0	692.8
122.5°	139.1	163.0	312.0	570.4	662.8
125°	150.7	173.6	303.3	526.9	619.0
127.5°	162.3	183.9	297.3	490.1	571.0
130°	169.2	190.3	295.3	464.5	543.9
132.5°	175.6	197.6	292.4	446.0	513.4
135°	185.2	206.9	291.0	415.5	478.1
137.5°	194.3	216.1	286.7	394.9	442.0
140°	201.2	221.1	286.7	380.0	423.3
142.5°	208.1	227.9	284.3	367.1	403.6
145°	219.0	235.3	285.5	353.2	380.9
147.5°	229.3	245.0	284.8	337.2	360.1
150°	235.7	249.5	286.7	330.2	348.3
152.5°	242.5	255.9	286.2	322.8	338.9
155°	251.0	261.9	289.2	312.8	324.3
157.5°	261.3	270.5	288.6	309.0	315.8
160°	265.2	273.0	291.0	304.1	308.9
162.5°	271.6	278.4	290.0	302.5	305.4
165°	277.5	281.7	292.9	297.3	301.5
167.5°	284.8	287.5	292.1	296.9	297.1
170°	286.7	288.5	294.1	293.6	296.6
172.5°	290.2	291.5	292.6	293.9	292.1
175°	293.5	292.3	293.5	291.0	290.4
177.5°	292.9	292.9	291.9	290.9	288.5
180°	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)