

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: P518987

Luminaire Tested: **SQ4-WB-025U-050D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518987  
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-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE 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: 6920.8 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

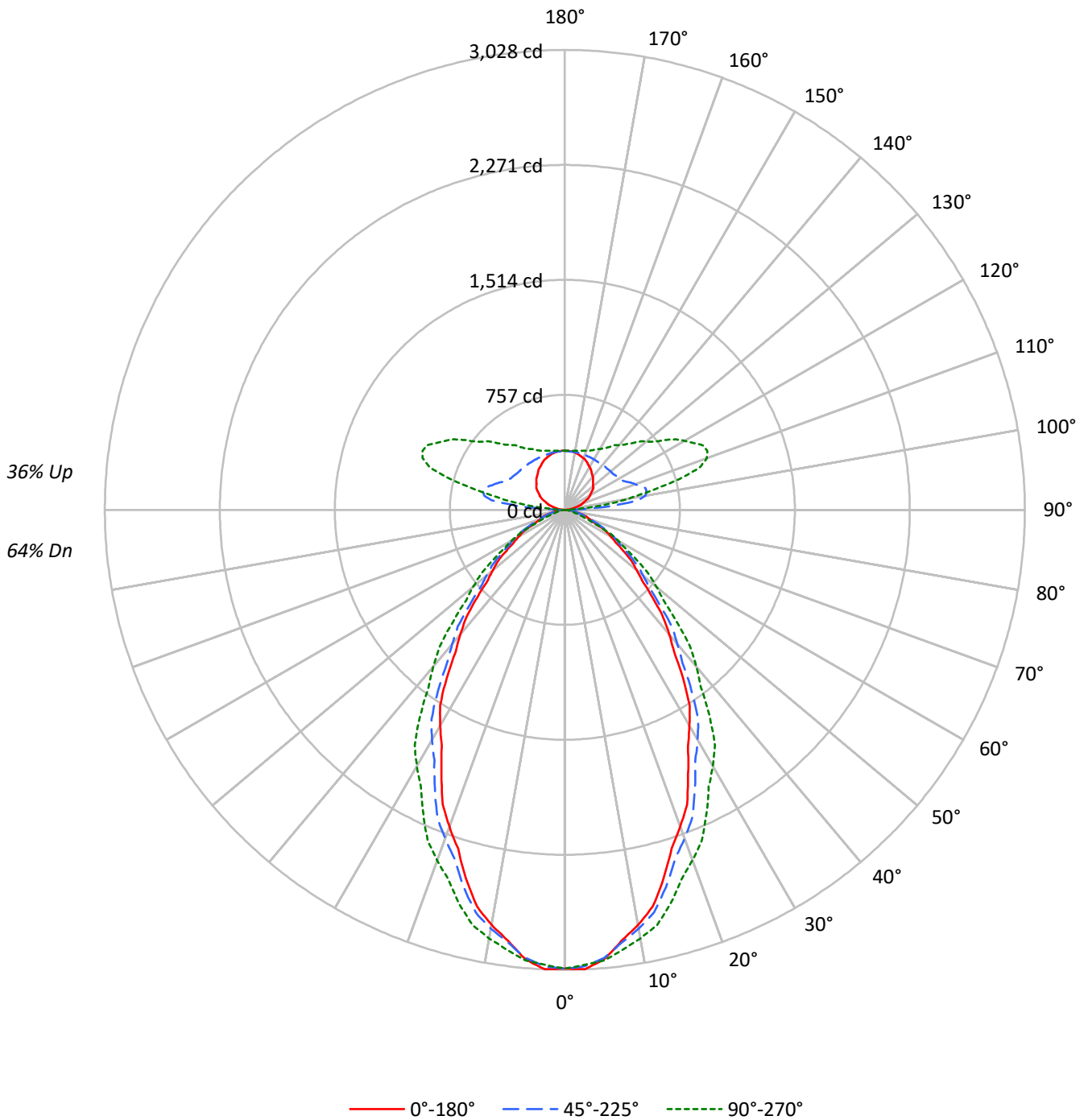
Input Watts (W): 68.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	9288	9288	9288
5°	9172	9140	9193
10°	8666	8744	8947
15°	8000	8185	8553
20°	7265	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4628	5405
45°	3539	3844	4513
50°	2954	3221	3760
55°	2508	2764	3105
60°	2144	2396	2478
65°	1707	2016	1601
70°	1513	1573	977
75°	1401	1275	599
80°	1291	1174	517
85°	1168	1076	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.0	4.0
10°-20°	720.5	10.4
20°-30°	933.3	13.5
30°-40°	913.9	13.2
40°-50°	699.6	10.1
50°-60°	466.1	6.7
60°-70°	254.4	3.7
70°-80°	106.0	1.5
80°-90°	32.1	0.5
90°-100°	189.3	2.7
100°-110°	497.7	7.2
110°-120°	516.1	7.5
120°-130°	414.0	6.0
130°-140°	324.8	4.7
140°-150°	249.3	3.6
150°-160°	179.6	2.6
160°-170°	109.9	1.6
170°-180°	37.1	0.5
0°-30°	1930.8	27.9
0°-40°	2844.8	41.1
0°-60°	4010.5	57.9
0°-90°	4403.0	63.6
90°-120°	1203.2	17.4
90°-150°	2191.3	31.7
90°-180°	2518.0	36.4
0°-180°	6920.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3020	3020	3020	3020	3020	
5°	2971	2941	2960	2967	2978	276
15°	2513	2504	2571	2641	2686	702
25°	1920	1925	2025	2113	2206	883
35°	1357	1364	1455	1553	1663	844
45°	814	829	884	951	1038	635
55°	468	487	516	535	579	424
65°	235	254	277	242	220	244
75°	118	118	107	74	50	126
85°	33	33	30	20	12	36
90°	2	7	20	10	10	4
95°	25	98	326	168	114	28
105°	90	136	550	835	779	95
115°	159	194	441	879	1004	157
125°	222	248	401	678	799	197
135°	264	291	388	547	620	204
145°	306	326	384	466	503	192
155°	346	356	384	421	433	159
165°	374	378	384	398	403	105
175°	388	388	386	391	391	37
180°	388	388	388	388	388	



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CATALOG NUMBER: SQ4-WB-025U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3020.1	3020.1	3020.1	3020.1	3020.1
2.5°	3027.5	3000.6	3007.4	3007.2	2998.9
5°	2971.1	2941.3	2960.5	2967.3	2977.7
7.5°	2860.8	2838.3	2873.3	2899.2	2920.2
10°	2775.0	2755.5	2800.1	2837.9	2865.1
12.5°	2675.3	2659.0	2714.3	2764.9	2800.4
15°	2512.6	2503.5	2570.9	2640.8	2686.2
17.5°	2338.4	2334.0	2411.3	2492.9	2551.0
20°	2219.7	2218.4	2303.2	2388.2	2455.6
22.5°	2099.9	2102.8	2191.9	2280.3	2357.0
25°	1920.2	1925.4	2024.9	2113.2	2206.4
27.5°	1754.0	1756.4	1859.2	1952.4	2051.9
30°	1640.6	1647.1	1747.9	1844.4	1948.0
32.5°	1527.2	1534.7	1633.4	1733.1	1838.8
35°	1357.0	1363.5	1455.1	1553.0	1663.1
37.5°	1181.5	1190.4	1271.7	1364.2	1472.6
40°	1068.1	1081.1	1152.9	1240.1	1346.4
42.5°	958.9	975.0	1041.6	1124.4	1220.2
45°	813.7	829.2	883.9	950.8	1037.6
47.5°	688.6	706.5	748.5	806.1	880.2
50°	617.5	634.4	673.2	715.9	785.8
52.5°	555.0	571.8	606.4	639.3	698.9
55°	467.8	487.2	515.5	535.1	579.1
57.5°	396.2	414.9	437.3	446.1	472.8
60°	348.5	369.3	389.6	388.6	402.9
62.5°	305.1	322.7	343.0	328.9	329.7
65°	234.6	254.0	277.0	242.0	220.0
67.5°	189.5	193.6	217.3	168.8	142.6
70°	168.3	168.3	174.9	130.7	108.7
72.5°	148.2	148.2	142.1	106.3	83.2
75°	117.9	117.9	107.3	73.7	50.4
77.5°	90.9	89.9	82.2	55.0	36.6
80°	72.9	72.9	66.3	43.4	29.2
82.5°	57.0	57.0	51.4	33.9	21.7
85°	33.1	33.1	30.5	19.7	11.9
87.5°	12.2	13.1	14.6	8.3	7.3
90°	2.5	7.4	19.9	10.0	10.0
92.5°	10.5	50.4	111.6	49.4	31.9
95°	24.9	97.9	326.2	168.1	114.5
97.5°	43.3	107.6	488.1	388.1	285.9
100°	57.3	115.7	537.9	545.1	423.3
102.5°	69.2	123.8	551.8	678.9	574.7
105°	89.6	135.9	550.3	835.4	779.4
107.5°	110.6	153.4	518.9	916.7	930.3
110°	124.5	163.5	493.0	937.6	996.1



TEST NUMBER: P518987

CATALOG NUMBER: SQ4-WB-025U-050D-935-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	138.5	175.5	469.1	924.4	1014.0
115°	159.4	193.5	440.8	879.3	1003.5
117.5°	179.8	211.0	421.3	816.9	954.7
120°	191.7	221.0	413.4	775.0	908.9
122.5°	203.7	232.9	407.4	733.1	865.1
125°	221.6	248.4	400.9	677.6	799.3
127.5°	236.1	263.3	395.4	632.8	735.6
130°	244.0	273.2	393.4	604.8	699.7
132.5°	252.0	281.2	391.4	580.6	665.9
135°	264.0	290.7	388.5	547.0	620.0
137.5°	276.4	302.7	388.0	521.8	581.7
140°	286.4	310.7	386.0	501.8	557.8
142.5°	294.3	316.7	386.0	487.7	535.9
145°	306.3	325.8	383.5	466.5	503.0
147.5°	318.2	337.2	383.5	448.9	479.1
150°	326.2	343.3	383.5	438.8	463.2
152.5°	334.2	347.3	383.5	430.7	449.2
155°	346.1	355.9	383.5	421.1	433.3
157.5°	355.1	364.3	383.5	412.6	421.3
160°	361.1	368.4	383.5	408.5	413.4
162.5°	367.0	372.4	383.5	404.5	409.4
165°	373.5	378.4	383.5	398.5	403.4
167.5°	379.5	381.9	386.0	396.0	397.9
170°	383.5	385.9	386.0	395.9	395.9
172.5°	385.5	386.0	386.0	393.9	391.9
175°	388.5	388.5	386.0	390.9	390.9
177.5°	388.5	388.5	386.5	390.4	388.5
180°	388.5	388.5	388.5	388.5	388.5

(END OF REPORT)