

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: P519180

Luminaire Tested: **SQ4-WB-075U-050D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519180  
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-935-1D-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: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

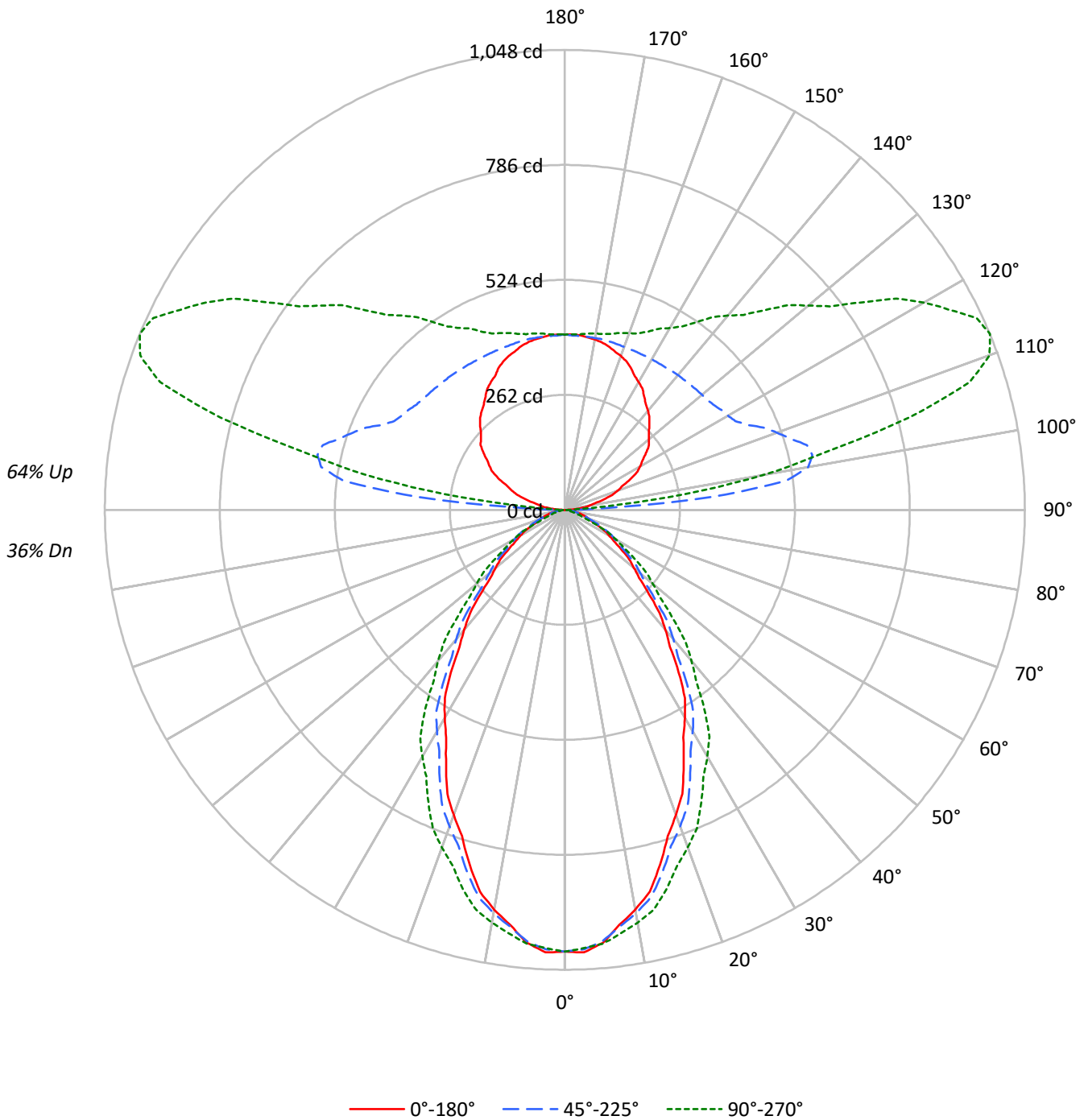
Lumens per Lamp: N/A  
Luminaire Lumens: 4069.2 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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°	9288	9288	9288
5°	9173	9139	9193
10°	8666	8745	8947
15°	8000	8186	8553
20°	7265	7538	8036
25°	6516	6871	7487
30°	5826	6207	6917
35°	5094	5463	6244
40°	4288	4628	5405
45°	3539	3844	4513
50°	2954	3221	3759
55°	2508	2763	3104
60°	2144	2397	2478
65°	1707	2015	1600
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1164	1080	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	2.3
10°-20°	240.2	5.9
20°-30°	311.1	7.6
30°-40°	304.6	7.5
40°-50°	233.2	5.7
50°-60°	155.4	3.8
60°-70°	84.8	2.1
70°-80°	35.3	0.9
80°-90°	11.0	0.3
90°-100°	188.3	4.6
100°-110°	518.1	12.7
110°-120°	534.8	13.1
120°-130°	428.5	10.5
130°-140°	336.5	8.3
140°-150°	257.9	6.3
150°-160°	185.4	4.6
160°-170°	113.4	2.8
170°-180°	38.2	0.9
0°-30°	643.6	15.8
0°-40°	948.3	23.3
0°-60°	1336.8	32.9
0°-90°	1468.0	36.1
90°-120°	1241.3	30.5
90°-150°	2264.2	55.6
90°-180°	2601.0	63.9
0°-180°	4069.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	990	980	987	989	993	92
15°	838	834	857	880	895	234
25°	640	642	675	704	736	294
35°	452	454	485	518	554	281
45°	271	276	295	317	346	211
55°	156	162	172	178	193	141
65°	78	85	92	81	73	81
75°	39	39	36	25	17	42
85°	11	11	10	7	4	12
90°	1	3	6	8	8	2
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1006.7	1006.7	1006.7	1006.7	1006.7
2.5°	1009.2	1000.2	1002.5	1002.4	999.6
5°	990.4	980.4	986.8	989.1	992.6
7.5°	953.6	946.1	957.8	966.4	973.4
10°	925.0	918.5	933.4	946.0	955.0
12.5°	891.8	886.3	904.8	921.6	933.5
15°	837.5	834.5	857.0	880.3	895.4
17.5°	779.5	778.0	803.8	831.0	850.3
20°	739.9	739.5	767.7	796.1	818.5
22.5°	700.0	700.9	730.6	760.1	785.7
25°	640.1	641.8	675.0	704.4	735.5
27.5°	584.7	585.5	619.7	650.8	684.0
30°	546.9	549.0	582.6	614.8	649.3
32.5°	509.1	511.6	544.5	577.7	612.9
35°	452.3	454.5	485.0	517.7	554.4
37.5°	393.8	396.8	423.9	454.7	490.9
40°	356.0	360.4	384.3	413.4	448.8
42.5°	319.6	325.0	347.2	374.8	406.7
45°	271.2	276.4	294.6	316.9	345.9
47.5°	229.5	235.5	249.5	268.7	293.4
50°	205.8	211.5	224.4	238.6	261.9
52.5°	185.0	190.6	202.1	213.1	233.0
55°	155.9	162.4	171.8	178.4	193.0
57.5°	132.1	138.3	145.8	148.7	157.6
60°	116.2	123.1	129.9	129.5	134.3
62.5°	101.7	107.6	114.3	109.6	109.9
65°	78.2	84.7	92.3	80.7	73.3
67.5°	63.2	64.5	72.4	56.3	47.5
70°	56.1	56.1	58.3	43.6	36.2
72.5°	49.4	49.4	47.4	35.4	27.7
75°	39.3	39.3	35.8	24.6	16.8
77.5°	30.3	30.0	27.4	18.3	12.2
80°	24.3	24.3	22.1	14.5	9.7
82.5°	19.0	19.0	17.1	11.3	7.2
85°	11.0	11.0	10.2	6.6	4.0
87.5°	4.1	4.6	4.7	3.6	3.3
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)