

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: P519084

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519084  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-050D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

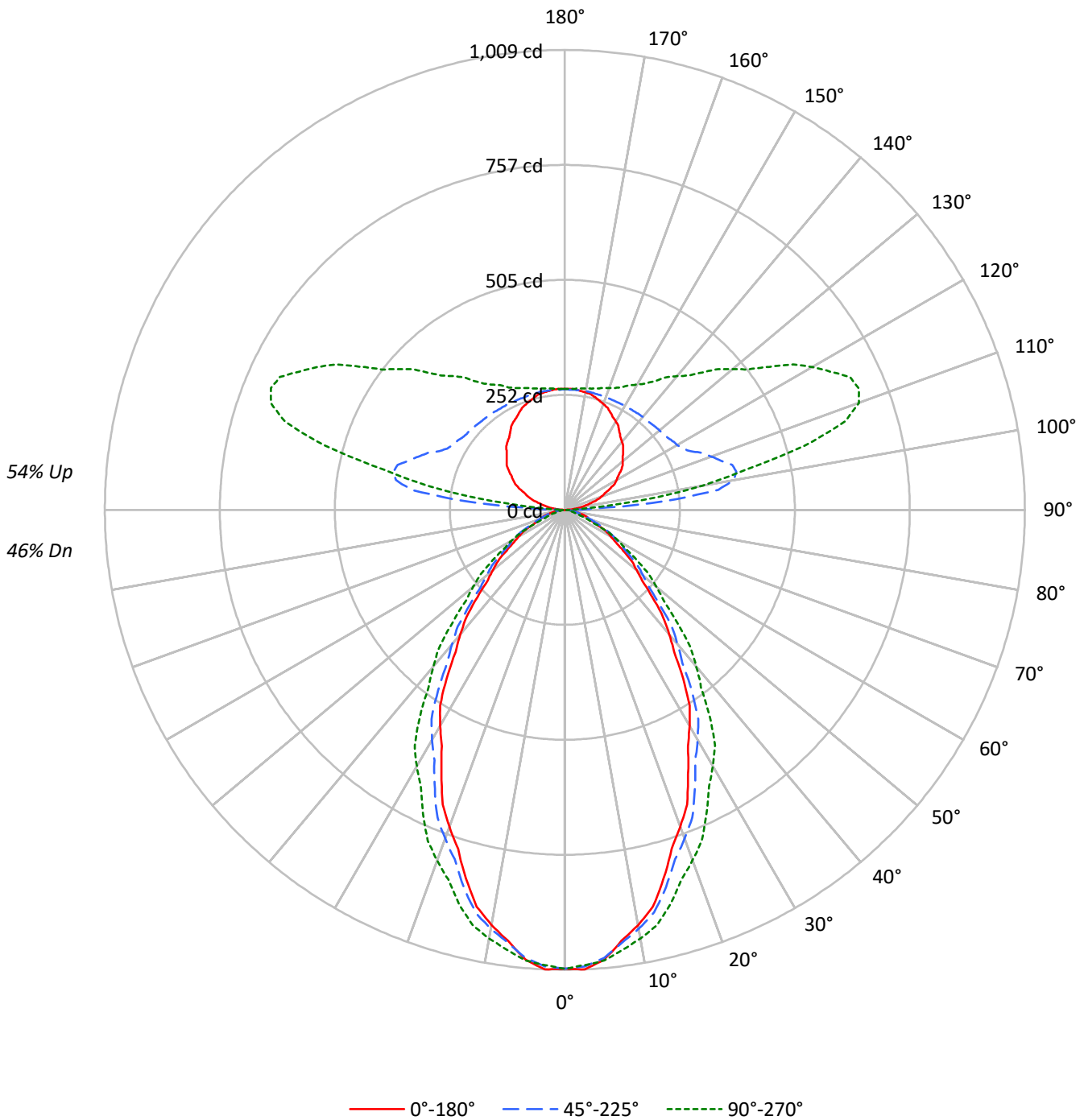
Lumens per Lamp: N/A  
Luminaire Lumens: 3198.7 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 28.5  
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				46
1	98	94	91	87	90	87	84	81	73	70	69	60	58	57	48	47	46	41				41
2	90	83	78	73	83	77	72	68	65	61	59	54	51	49	43	42	41	36				36
3	83	74	68	62	76	69	63	58	58	54	51	49	46	43	40	38	36	32				32
4	76	66	59	54	70	62	55	50	52	48	44	44	41	38	36	34	32	28				28
5	71	60	52	47	65	56	49	44	48	43	39	40	36	34	33	31	29	25				25
6	65	54	47	41	60	50	44	39	43	38	34	37	33	30	30	28	26	23				23
7	61	49	42	37	56	46	39	35	40	35	31	34	30	27	28	25	23	21				21
8	57	45	38	33	52	42	36	31	36	31	28	31	27	25	26	23	21	19				19
9	53	41	34	30	49	39	32	28	34	29	25	29	25	22	24	22	20	17				17
10	50	38	31	27	46	36	30	26	31	26	23	27	23	21	23	20	18	16				16

**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	2.9
10°-20°	240.2	7.5
20°-30°	311.1	9.7
30°-40°	304.6	9.5
40°-50°	233.2	7.3
50°-60°	155.4	4.9
60°-70°	84.8	2.7
70°-80°	35.3	1.1
80°-90°	11.0	0.3
90°-100°	127.2	4.0
100°-110°	345.7	10.8
110°-120°	355.4	11.1
120°-130°	284.2	8.9
130°-140°	223.3	7.0
140°-150°	171.2	5.4
150°-160°	123.1	3.8
160°-170°	75.3	2.4
170°-180°	25.4	0.8
0°-30°	643.6	20.1
0°-40°	948.3	29.6
0°-60°	1336.8	41.8
0°-90°	1468.0	45.9
90°-120°	828.3	25.9
90°-150°	1507.0	47.1
90°-180°	1731.0	54.1
0°-180°	3198.7	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°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	

TEST NUMBER: P519084

CATALOG NUMBER: SQ4-WB-050U-050D-935-1D-UNV-STD-W-4

**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°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1

TEST NUMBER: P519084

CATALOG NUMBER: SQ4-WB-050U-050D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)