

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: P519011

Luminaire Tested: **SQ4-WB-025U-075D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519011  
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-075D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

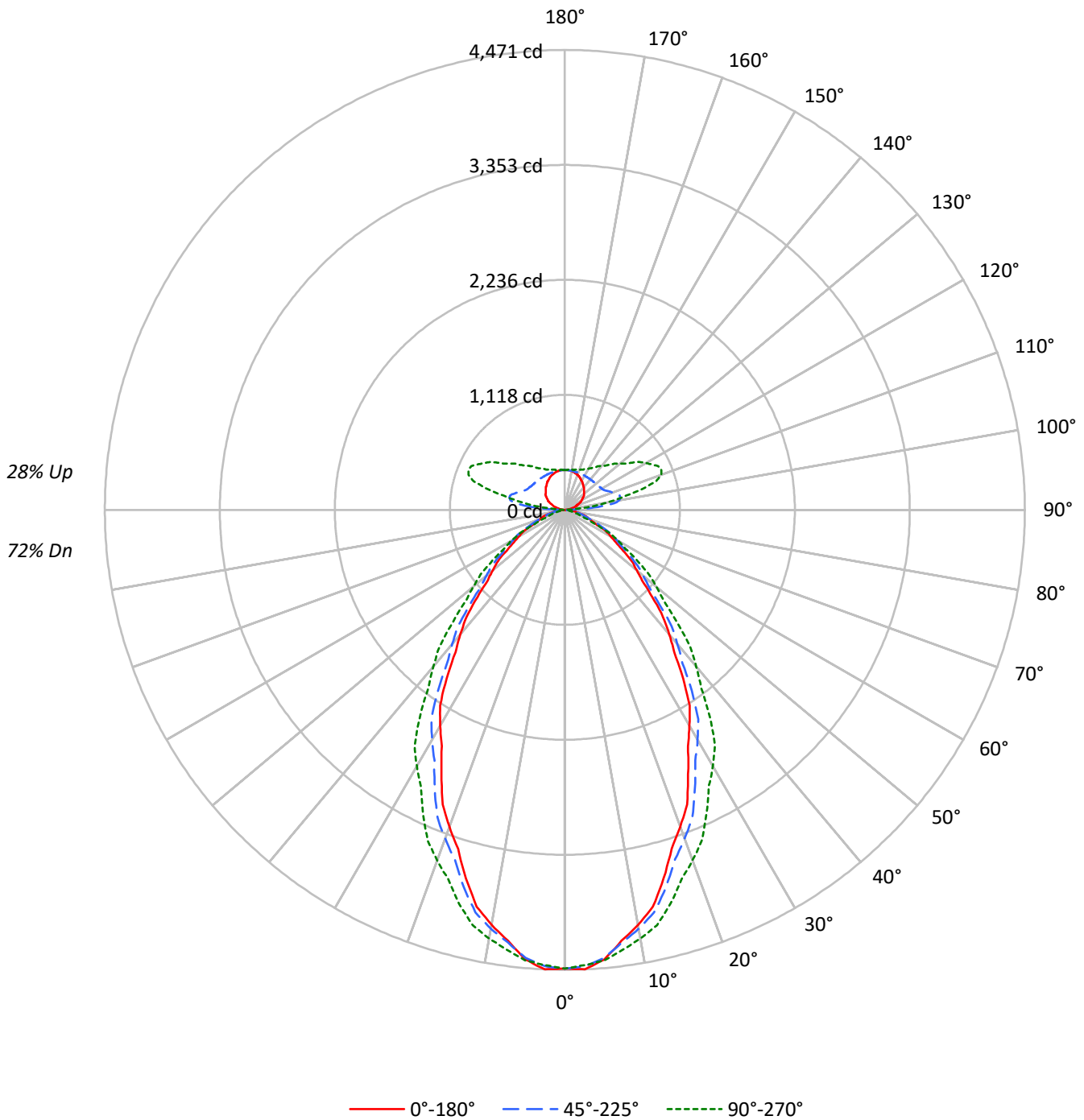
Lumens per Lamp: N/A  
Luminaire Lumens: 9019.4 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 94.8  
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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

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

	0°	45°	90°
0°	13717	13717	13717
5°	13546	13498	13576
10°	12798	12914	13214
15°	11814	12089	12631
20°	10729	11132	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9221
40°	6333	6836	7983
45°	5227	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1443
75°	2070	1883	884
80°	1906	1734	763
85°	1725	1588	621



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	409.1	4.5
10°-20°	1064.1	11.8
20°-30°	1378.4	15.3
30°-40°	1349.8	15.0
40°-50°	1033.1	11.5
50°-60°	688.4	7.6
60°-70°	375.7	4.2
70°-80°	156.5	1.7
80°-90°	46.4	0.5
90°-100°	189.3	2.1
100°-110°	497.7	5.5
110°-120°	516.1	5.7
120°-130°	414.0	4.6
130°-140°	324.8	3.6
140°-150°	249.3	2.8
150°-160°	179.6	2.0
160°-170°	109.9	1.2
170°-180°	37.1	0.4
0°-30°	2851.6	31.6
0°-40°	4201.4	46.6
0°-60°	5923.0	65.7
0°-90°	6501.6	72.1
90°-120°	1203.2	13.3
90°-150°	2191.3	24.3
90°-180°	2518.0	27.9
0°-180°	9019.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4460	4460	4460	4460	4460	
5°	4388	4344	4372	4382	4398	408
15°	3711	3697	3797	3900	3967	1036
25°	2836	2844	2990	3121	3259	1304
35°	2004	2014	2149	2294	2456	1246
45°	1202	1225	1305	1404	1532	937
55°	691	720	761	790	855	626
65°	346	375	409	357	325	360
75°	174	174	158	109	74	186
85°	49	49	45	29	18	53
90°	2	7	20	10	10	5
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4460.3	4460.3	4460.3	4460.3	4460.3
2.5°	4471.3	4431.5	4441.5	4441.3	4429.0
5°	4387.9	4343.9	4372.3	4382.4	4397.7
7.5°	4225.1	4191.8	4243.5	4281.8	4312.8
10°	4098.3	4069.6	4135.4	4191.2	4231.3
12.5°	3951.1	3927.0	4008.6	4083.4	4135.8
15°	3710.7	3697.3	3796.9	3900.1	3967.1
17.5°	3453.6	3447.1	3561.2	3681.8	3767.5
20°	3278.2	3276.3	3401.5	3527.1	3626.6
22.5°	3101.3	3105.5	3237.1	3367.7	3481.0
25°	2835.9	2843.6	2990.5	3120.9	3258.6
27.5°	2590.5	2593.9	2745.9	2883.5	3030.4
30°	2422.9	2432.5	2581.5	2723.9	2877.0
32.5°	2255.4	2266.5	2412.4	2559.6	2715.7
35°	2004.1	2013.7	2148.9	2293.6	2456.2
37.5°	1745.0	1758.0	1878.1	2014.8	2174.8
40°	1577.5	1596.6	1702.7	1831.5	1988.5
42.5°	1416.2	1439.9	1538.3	1660.5	1802.1
45°	1201.7	1224.6	1305.4	1404.2	1532.4
47.5°	1016.9	1043.3	1105.4	1190.5	1299.9
50°	912.0	936.9	994.2	1057.2	1160.6
52.5°	819.7	844.5	895.6	944.2	1032.2
55°	690.9	719.6	761.3	790.2	855.3
57.5°	585.2	612.7	645.9	658.9	698.3
60°	514.7	545.3	575.4	573.9	595.0
62.5°	450.5	476.6	506.5	485.8	486.9
65°	346.4	375.1	409.0	357.4	324.9
67.5°	279.9	286.0	321.0	249.2	210.6
70°	248.6	248.6	258.3	193.0	160.5
72.5°	218.8	218.8	209.8	157.0	122.9
75°	174.2	174.2	158.5	108.8	74.4
77.5°	134.3	132.7	121.3	81.2	54.0
80°	107.6	107.6	97.9	64.1	43.1
82.5°	84.2	84.2	75.9	50.1	32.1
85°	48.9	48.9	45.0	29.1	17.6
87.5°	17.7	18.7	19.6	11.4	9.8
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

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**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)