

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: P521872

Luminaire Tested: **SQ4-WB-0U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521872  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-050D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

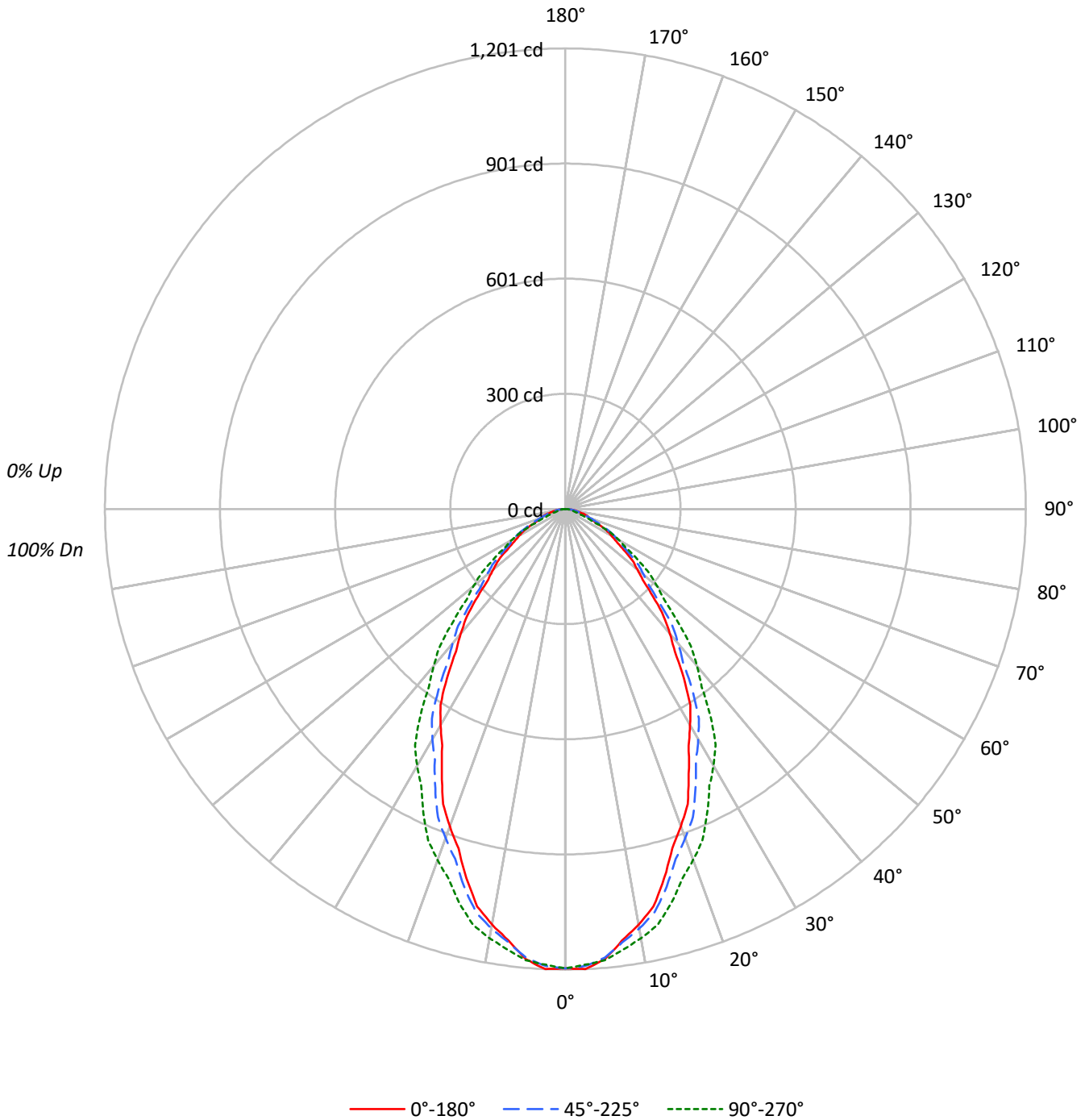
Lumens per Lamp: N/A  
Luminaire Lumens: 1745.9 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.9  
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46	41	37	35

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

	0°	45°	90°
0°	11054	11054	11054
5°	10916	10877	10941
10°	10313	10407	10648
15°	9520	9742	10178
20°	8646	8971	9564
25°	7754	8178	8911
30°	6933	7387	8233
35°	6063	6501	7431
40°	5103	5509	6433
45°	4212	4575	5370
50°	3517	3834	4474
55°	2985	3289	3695
60°	2552	2853	2949
65°	2030	2399	1906
70°	1802	1872	1163
75°	1668	1519	713
80°	1536	1397	616
85°	1387	1281	498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.9	6.3
10°-20°	285.8	16.4
20°-30°	370.2	21.2
30°-40°	362.6	20.8
40°-50°	277.5	15.9
50°-60°	184.9	10.6
60°-70°	100.9	5.8
70°-80°	42.1	2.4
80°-90°	11.9	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	766.0	43.9
0°-40°	1128.5	64.6
0°-60°	1591.0	91.1
0°-90°	1745.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1179	1167	1174	1177	1181	110
15°	997	993	1020	1048	1066	278
25°	762	764	803	838	875	350
35°	538	541	577	616	660	335
45°	323	329	351	377	412	252
55°	186	193	204	212	230	168
65°	93	101	110	96	87	97
75°	47	47	43	29	20	50
85°	13	13	12	8	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1198.1	1198.1	1198.1	1198.1	1198.1
2.5°	1201.0	1190.3	1193.0	1193.0	1189.7
5°	1178.6	1166.8	1174.4	1177.1	1181.3
7.5°	1134.9	1125.9	1139.8	1150.1	1158.4
10°	1100.8	1093.1	1110.8	1125.8	1136.6
12.5°	1061.3	1054.8	1076.7	1096.8	1110.9
15°	996.7	993.1	1019.9	1047.6	1065.6
17.5°	927.7	925.9	956.6	989.0	1012.0
20°	880.6	880.0	913.7	947.4	974.1
22.5°	833.0	834.2	869.5	904.6	935.0
25°	761.7	763.8	803.3	838.3	875.3
27.5°	695.8	696.7	737.6	774.5	814.0
30°	650.8	653.4	693.4	731.7	772.8
32.5°	605.8	608.8	648.0	687.5	729.5
35°	538.3	540.9	577.2	616.1	659.8
37.5°	468.7	472.2	504.5	541.2	584.2
40°	423.7	428.9	457.4	492.0	534.1
42.5°	380.4	386.8	413.2	446.0	484.1
45°	322.8	329.0	350.6	377.2	411.6
47.5°	273.2	280.2	296.9	319.8	349.2
50°	245.0	251.7	267.1	284.0	311.7
52.5°	220.2	226.8	240.6	253.6	277.3
55°	185.6	193.3	204.5	212.3	229.7
57.5°	157.2	164.6	173.5	177.0	187.6
60°	138.3	146.5	154.6	154.2	159.8
62.5°	121.0	128.0	136.1	130.5	130.8
65°	93.0	100.8	109.9	96.0	87.3
67.5°	75.2	76.8	86.2	66.9	56.6
70°	66.8	66.8	69.4	51.8	43.1
72.5°	58.8	58.8	56.4	42.2	33.0
75°	46.8	46.8	42.6	29.2	20.0
77.5°	36.1	35.7	32.6	21.8	14.5
80°	28.9	28.9	26.3	17.2	11.6
82.5°	22.6	22.6	20.4	13.5	8.6
85°	13.1	13.1	12.1	7.8	4.7
87.5°	4.6	4.6	4.2	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)