

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: P519281

Luminaire Tested: **SQ4-WB-0U-050D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519281  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

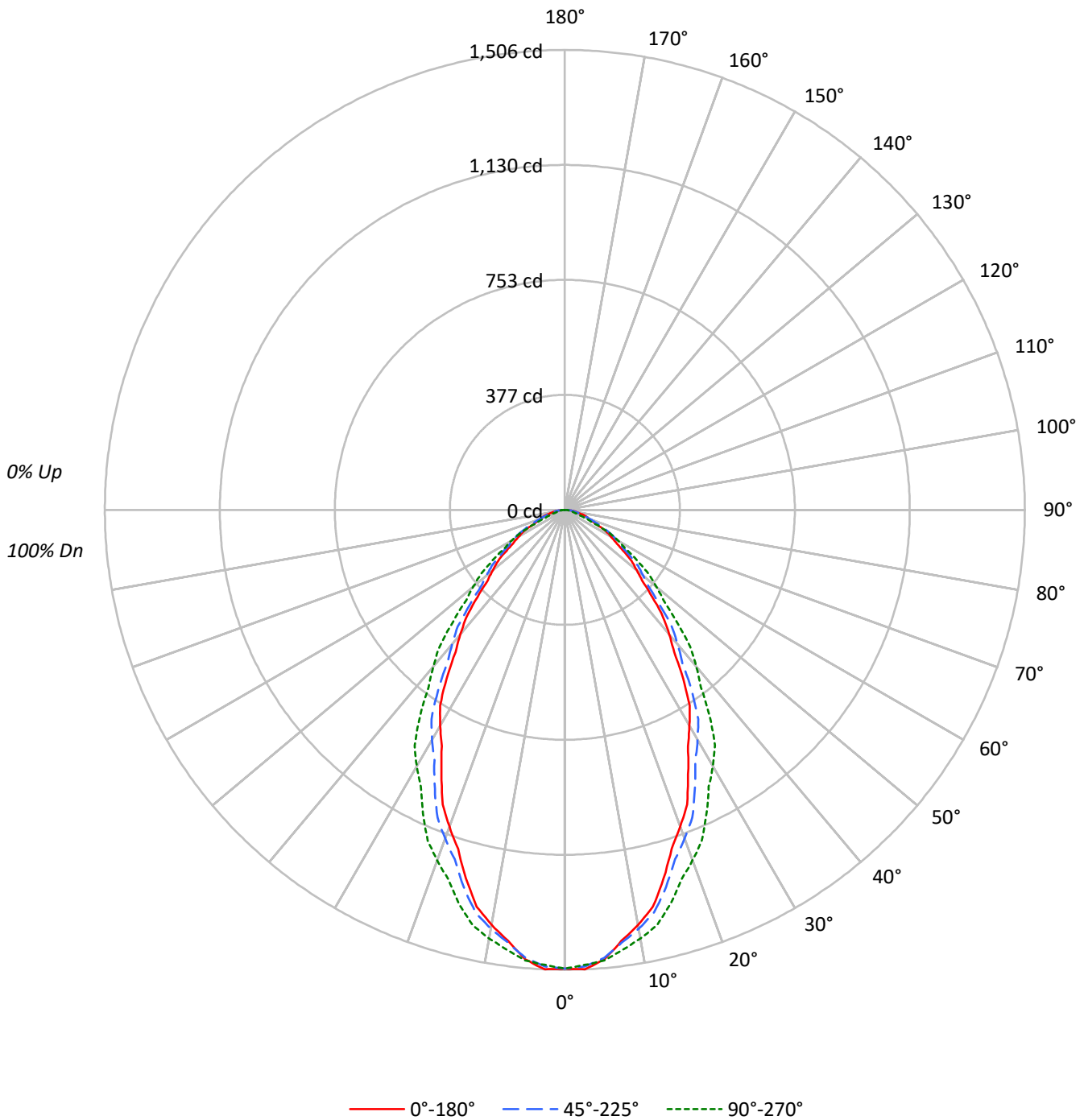
Lumens per Lamp: N/A  
Luminaire Lumens: 2189.3 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.7  
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	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°	9241	9241	9241
5°	9126	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7228	7499	7996
25°	6483	6836	7449
30°	5796	6175	6883
35°	5069	5435	6212
40°	4266	4605	5378
45°	3521	3825	4490
50°	2940	3205	3741
55°	2495	2750	3089
60°	2133	2384	2465
65°	1698	2006	1592
70°	1505	1565	973
75°	1395	1269	596
80°	1286	1169	514
85°	1164	1073	416



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.8	6.3
10°-20°	358.4	16.4
20°-30°	464.3	21.2
30°-40°	454.6	20.8
40°-50°	348.0	15.9
50°-60°	231.9	10.6
60°-70°	126.5	5.8
70°-80°	52.7	2.4
80°-90°	14.9	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°	960.5	43.9
0°-40°	1415.2	64.6
0°-60°	1995.1	91.1
0°-90°	2189.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1478	1463	1473	1476	1481	137
15°	1250	1245	1279	1314	1336	349
25°	955	958	1007	1051	1098	439
35°	675	678	724	772	827	420
45°	405	412	440	473	516	316
55°	233	242	256	266	288	211
65°	117	126	138	120	109	121
75°	59	59	53	37	25	63
85°	16	16	15	10	6	19
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1502.4	1502.4	1502.4	1502.4	1502.4
2.5°	1506.1	1492.7	1496.1	1496.0	1491.8
5°	1478.0	1463.2	1472.7	1476.1	1481.3
7.5°	1423.2	1411.9	1429.3	1442.2	1452.7
10°	1380.4	1370.8	1393.0	1411.7	1425.3
12.5°	1330.9	1322.7	1350.2	1375.4	1393.1
15°	1249.9	1245.4	1278.9	1313.7	1336.3
17.5°	1163.3	1161.1	1199.5	1240.1	1269.0
20°	1104.2	1103.6	1145.7	1188.0	1221.6
22.5°	1044.6	1046.0	1090.4	1134.4	1172.5
25°	955.2	957.8	1007.3	1051.2	1097.6
27.5°	872.6	873.7	924.9	971.3	1020.8
30°	816.1	819.4	869.5	917.5	969.1
32.5°	759.7	763.4	812.6	862.2	914.8
35°	675.1	678.3	723.8	772.5	827.3
37.5°	587.8	592.2	632.6	678.7	732.5
40°	531.3	537.8	573.5	616.9	669.8
42.5°	477.0	485.0	518.2	559.3	607.0
45°	404.8	412.5	439.7	473.0	516.2
47.5°	342.5	351.4	372.3	401.0	437.9
50°	307.2	315.6	334.9	356.1	390.9
52.5°	276.1	284.5	301.7	318.0	347.7
55°	232.7	242.4	256.4	266.2	288.1
57.5°	197.1	206.4	217.5	221.9	235.2
60°	173.4	183.7	193.8	193.3	200.4
62.5°	151.8	160.5	170.6	163.6	164.0
65°	116.7	126.4	137.8	120.4	109.4
67.5°	94.3	96.3	108.1	84.0	70.9
70°	83.7	83.7	87.0	65.0	54.1
72.5°	73.7	73.7	70.7	52.9	41.4
75°	58.7	58.7	53.4	36.7	25.1
77.5°	45.2	44.7	40.9	27.3	18.2
80°	36.3	36.3	33.0	21.6	14.5
82.5°	28.3	28.3	25.6	16.9	10.8
85°	16.5	16.5	15.2	9.8	5.9
87.5°	5.8	5.8	5.3	3.2	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)