

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: P519270

Luminaire Tested: **SQ4-WB-0U-050D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519270  
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-840-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

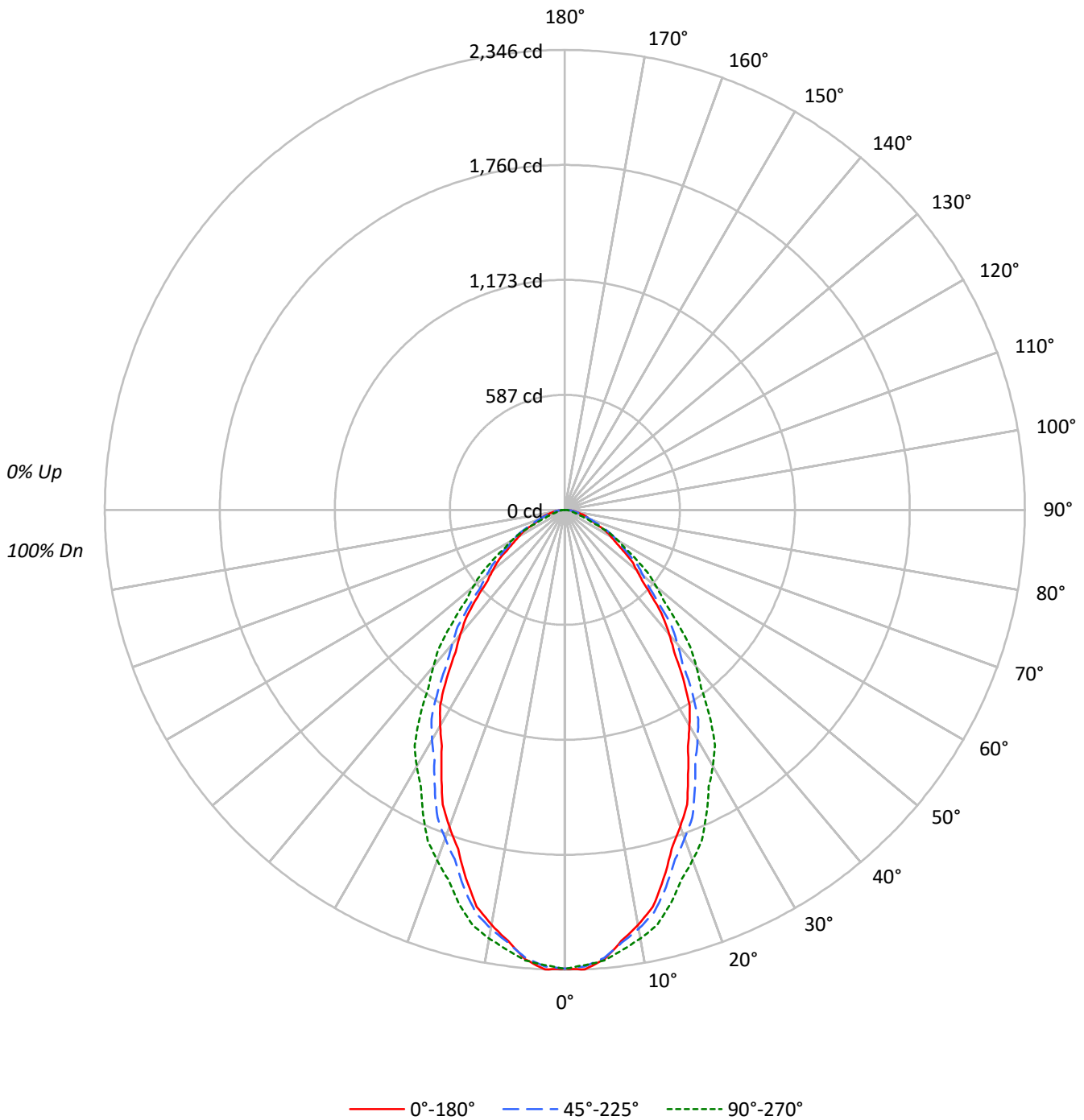
Lumens per Lamp: N/A  
Luminaire Lumens: 3410.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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°	10797	10797	10797
5°	10662	10624	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8762	9342
25°	7574	7988	8704
30°	6772	7216	8042
35°	5922	6350	7259
40°	4985	5381	6283
45°	4114	4469	5246
50°	3435	3744	4371
55°	2915	3213	3610
60°	2492	2785	2880
65°	1984	2342	1861
70°	1759	1829	1136
75°	1629	1483	695
80°	1501	1363	600
85°	1360	1249	487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.7	6.3
10°-20°	558.4	16.4
20°-30°	723.3	21.2
30°-40°	708.3	20.8
40°-50°	542.1	15.9
50°-60°	361.3	10.6
60°-70°	197.1	5.8
70°-80°	82.1	2.4
80°-90°	23.3	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°	1496.4	43.9
0°-40°	2204.6	64.6
0°-60°	3108.0	91.1
0°-90°	3410.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3410.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2340	2340	2340	2340	2340	
5°	2302	2279	2294	2300	2308	214
15°	1947	1940	1992	2047	2082	544
25°	1488	1492	1569	1638	1710	684
35°	1052	1057	1128	1204	1289	654
45°	631	643	685	737	804	492
55°	362	378	400	415	449	329
65°	182	197	215	188	170	189
75°	91	91	83	57	39	98
85°	26	26	24	15	9	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2340.5	2340.5	2340.5	2340.5	2340.5
2.5°	2346.3	2325.4	2330.7	2330.5	2324.1
5°	2302.5	2279.4	2294.3	2299.6	2307.7
7.5°	2217.1	2199.6	2226.7	2246.8	2263.1
10°	2150.5	2135.5	2170.0	2199.3	2220.4
12.5°	2073.3	2060.7	2103.5	2142.7	2170.3
15°	1947.2	1940.2	1992.4	2046.6	2081.7
17.5°	1812.2	1808.8	1868.7	1932.0	1977.0
20°	1720.2	1719.2	1784.9	1850.8	1903.0
22.5°	1627.4	1629.6	1698.7	1767.2	1826.6
25°	1488.1	1492.1	1569.3	1637.7	1710.0
27.5°	1359.3	1361.1	1440.9	1513.1	1590.2
30°	1271.4	1276.4	1354.6	1429.4	1509.7
32.5°	1183.5	1189.3	1265.9	1343.1	1425.1
35°	1051.6	1056.7	1127.6	1203.5	1288.9
37.5°	915.7	922.5	985.5	1057.3	1141.2
40°	827.8	837.8	893.5	961.1	1043.4
42.5°	743.1	755.6	807.2	871.4	945.7
45°	630.6	642.6	685.0	736.9	804.1
47.5°	533.6	547.5	580.0	624.7	682.1
50°	478.6	491.6	521.7	554.8	609.0
52.5°	430.1	443.2	470.0	495.4	541.6
55°	362.5	377.6	399.5	414.7	448.8
57.5°	307.1	321.5	338.9	345.7	366.4
60°	270.1	286.2	301.9	301.2	312.2
62.5°	236.4	250.1	265.8	254.9	255.5
65°	181.8	196.8	214.6	187.6	170.5
67.5°	146.9	150.1	168.4	130.8	110.5
70°	130.4	130.4	135.6	101.3	84.2
72.5°	114.8	114.8	110.1	82.4	64.5
75°	91.4	91.4	83.2	57.1	39.0
77.5°	70.5	69.6	63.7	42.6	28.3
80°	56.5	56.5	51.3	33.6	22.6
82.5°	44.2	44.2	39.8	26.3	16.8
85°	25.7	25.7	23.6	15.3	9.2
87.5°	9.0	9.0	8.2	4.9	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)