

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: P519315

Luminaire Tested: **SQ4-WB-0U-100D-840-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519315  
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-100D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

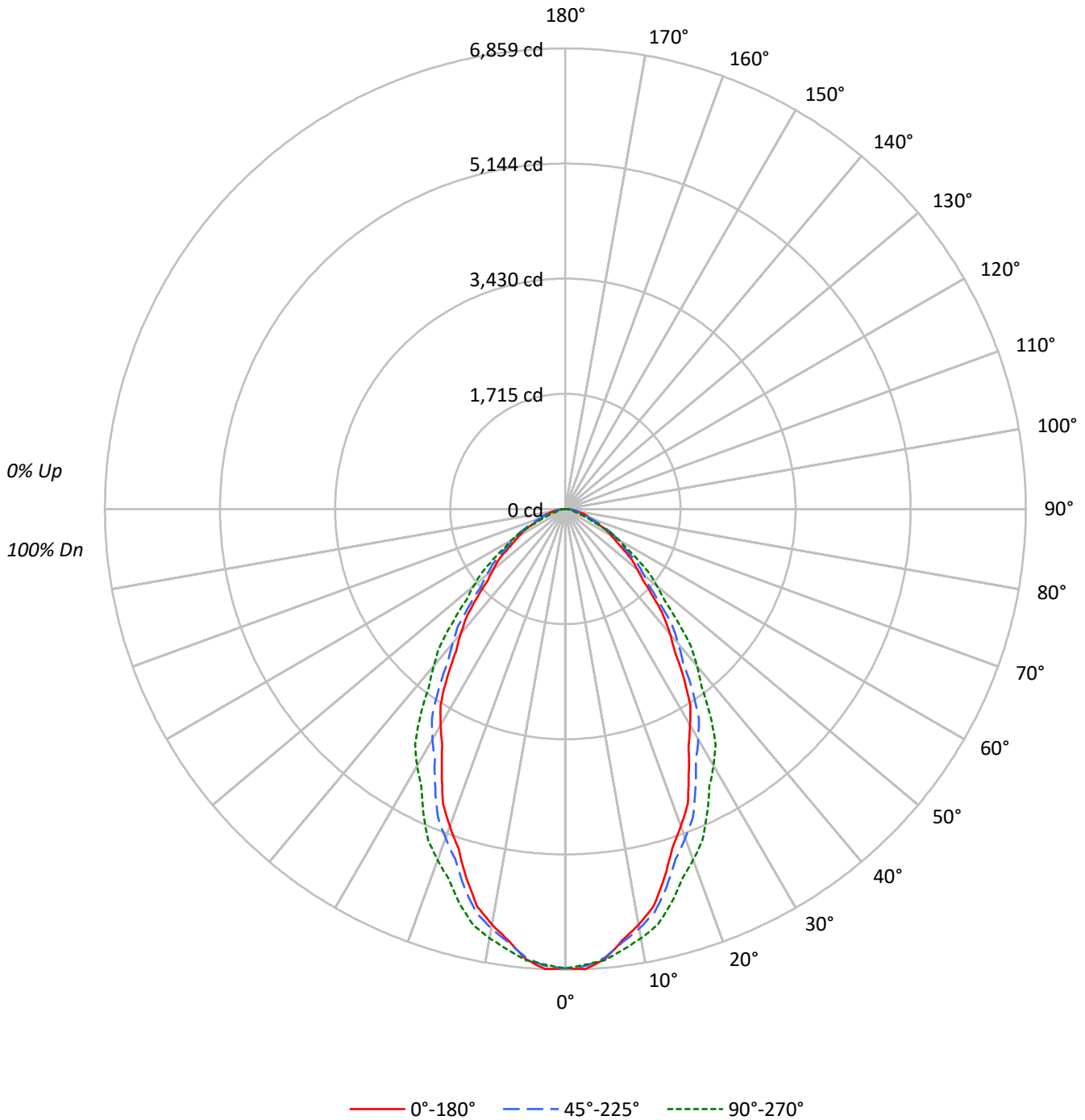
Lumens per Lamp: N/A  
Luminaire Lumens: 9970.5 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 108.2  
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°	21043	21043	21043
5°	20780	20706	20827
10°	19633	19811	20270
15°	18124	18545	19376
20°	16458	17078	18207
25°	14762	15567	16963
30°	13199	14063	15673
35°	11542	12377	14146
40°	9715	10486	12246
45°	8017	8710	10224
50°	6694	7297	8518
55°	5682	6262	7035
60°	4857	5429	5614
65°	3867	4566	3627
70°	3429	3563	2214
75°	3175	2890	1356
80°	2924	2658	1171
85°	2650	2438	953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.6	6.3
10°-20°	1632.4	16.4
20°-30°	2114.5	21.2
30°-40°	2070.6	20.8
40°-50°	1584.9	15.9
50°-60°	1056.1	10.6
60°-70°	576.3	5.8
70°-80°	240.1	2.4
80°-90°	68.0	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°	4374.5	43.9
0°-40°	6445.1	64.6
0°-60°	9086.1	91.1
0°-90°	9970.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9970.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6842	6842	6842	6842	6842	
5°	6731	6664	6707	6723	6746	626
15°	5692	5672	5824	5983	6086	1590
25°	4350	4362	4588	4788	4999	2001
35°	3074	3089	3297	3518	3768	1911
45°	1843	1879	2003	2154	2351	1438
55°	1060	1104	1168	1212	1312	961
65°	531	575	628	548	498	552
75°	267	267	243	167	114	285
85°	75	75	69	45	27	85
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6842.3	6842.3	6842.3	6842.3	6842.3
2.5°	6859.1	6798.1	6813.5	6813.1	6794.3
5°	6731.2	6663.7	6707.2	6722.8	6746.2
7.5°	6481.4	6430.4	6509.7	6568.4	6615.9
10°	6286.9	6242.8	6343.9	6429.4	6491.0
12.5°	6061.1	6024.1	6149.4	6264.1	6344.5
15°	5692.4	5671.9	5824.5	5983.0	6085.7
17.5°	5297.9	5287.9	5463.0	5648.0	5779.5
20°	5028.9	5026.0	5218.1	5410.7	5563.3
22.5°	4757.5	4764.0	4965.9	5166.2	5339.9
25°	4350.4	4362.1	4587.6	4787.5	4998.9
27.5°	3973.9	3979.2	4212.3	4423.4	4648.8
30°	3716.9	3731.6	3960.1	4178.6	4413.4
32.5°	3459.9	3476.9	3700.7	3926.5	4166.0
35°	3074.4	3089.1	3296.6	3518.4	3767.9
37.5°	2676.9	2696.8	2881.0	3090.8	3336.2
40°	2419.9	2449.2	2612.0	2809.6	3050.4
42.5°	2172.5	2208.9	2359.8	2547.3	2764.5
45°	1843.4	1878.7	2002.6	2154.1	2350.8
47.5°	1560.0	1600.5	1695.7	1826.2	1994.1
50°	1399.1	1437.2	1525.2	1621.9	1780.4
52.5°	1257.4	1295.5	1373.9	1448.4	1583.4
55°	1059.8	1103.9	1167.9	1212.2	1312.0
57.5°	897.7	940.0	990.8	1010.8	1071.2
60°	789.6	836.6	882.7	880.4	912.7
62.5°	691.1	731.1	777.0	745.2	747.0
65°	531.4	575.4	627.5	548.3	498.4
67.5°	429.3	438.7	492.4	382.4	323.1
70°	381.3	381.3	396.3	296.1	246.2
72.5°	335.7	335.7	321.8	240.8	188.5
75°	267.2	267.2	243.2	166.9	114.1
77.5°	206.0	203.6	186.1	124.6	82.9
80°	165.1	165.1	150.1	98.3	66.1
82.5°	129.1	129.1	116.5	76.8	49.2
85°	75.1	75.1	69.1	44.6	27.0
87.5°	26.4	26.4	24.0	14.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)