

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: P518676

Luminaire Tested: **SQ4-BB-0U-125D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518676  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-0U-125D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

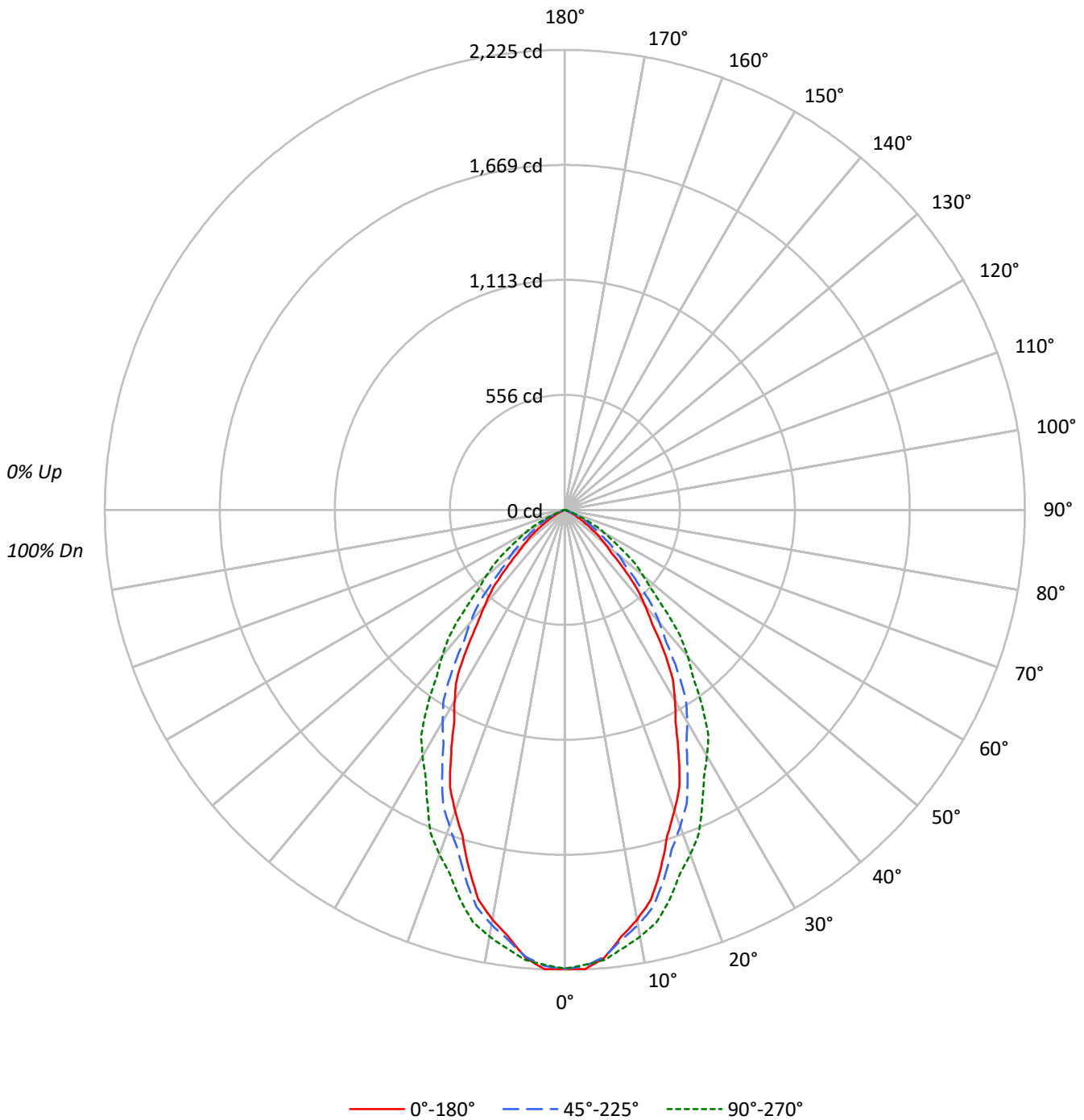
Lumens per Lamp: N/A  
Luminaire Lumens: 2648.0 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.6  
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41

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

	0°	45°	90°
0°	20480	20480	20480
5°	20151	20101	20250
10°	18855	19106	19639
15°	17140	17685	18670
20°	15215	16006	17409
25°	13250	14300	15995
30°	11349	12597	14656
35°	9410	10693	13039
40°	7230	8550	11111
45°	5227	6474	8940
50°	3561	4824	7091
55°	2315	3489	5511
60°	1329	2458	3984
65°	351	1500	2017
70°	173	464	580
75°	75	39	0
80°	58	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.6	7.7
10°-20°	518.1	19.6
20°-30°	648.6	24.5
30°-40°	599.1	22.6
40°-50°	402.5	15.2
50°-60°	207.9	7.9
60°-70°	65.1	2.5
70°-80°	4.1	0.2
80°-90°	0.1	0.0
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°	1369.2	51.7
0°-40°	1968.3	74.3
0°-60°	2578.7	97.4
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2220	2220	2220	2220	2220	
5°	2176	2154	2170	2178	2186	202
15°	1794	1788	1852	1914	1955	500
25°	1302	1312	1405	1501	1571	597
35°	836	856	949	1061	1158	518
45°	401	425	496	593	685	315
55°	144	168	217	278	343	134
65°	16	31	69	83	92	27
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2219.8	2219.8	2219.8	2219.8	2219.8
2.5°	2225.0	2204.0	2209.5	2209.4	2203.5
5°	2175.8	2153.7	2170.4	2178.1	2186.5
7.5°	2083.9	2066.6	2098.7	2122.7	2140.1
10°	2012.6	1997.9	2039.4	2072.2	2096.3
12.5°	1930.1	1918.7	1968.9	2013.9	2044.8
15°	1794.5	1788.2	1851.5	1913.6	1954.6
17.5°	1649.3	1649.1	1721.3	1798.5	1847.8
20°	1549.7	1552.8	1630.2	1715.3	1773.1
22.5°	1450.0	1457.4	1540.0	1628.7	1694.9
25°	1301.6	1312.1	1404.7	1500.8	1571.2
27.5°	1159.0	1174.3	1271.8	1371.6	1457.3
30°	1065.3	1083.2	1182.4	1287.5	1375.7
32.5°	973.4	994.6	1091.3	1202.5	1292.4
35°	835.5	856.5	949.4	1061.1	1157.7
37.5°	693.1	713.7	804.4	914.4	1018.7
40°	600.3	623.4	709.9	816.5	922.5
42.5°	516.1	539.2	620.5	725.2	825.4
45°	400.6	424.7	496.2	592.8	685.2
47.5°	304.8	331.0	393.7	481.1	565.3
50°	248.1	274.3	336.1	413.2	494.0
52.5°	202.5	228.0	283.7	356.3	430.4
55°	143.9	168.1	216.9	278.5	342.6
57.5°	99.4	120.2	164.1	215.5	265.7
60°	72.0	91.9	133.2	174.9	215.9
62.5°	47.9	66.2	106.5	138.5	166.0
65°	16.1	30.8	68.7	82.9	92.4
67.5°	8.2	9.8	36.1	38.1	41.2
70°	6.4	6.4	17.2	18.3	21.5
72.5°	4.7	4.7	6.9	8.8	9.5
75°	2.1	2.1	1.1	0.0	0.0
77.5°	1.1	1.1	0.9	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)