

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: P518672

Luminaire Tested: **SQ4-BB-0U-125D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518672  
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-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

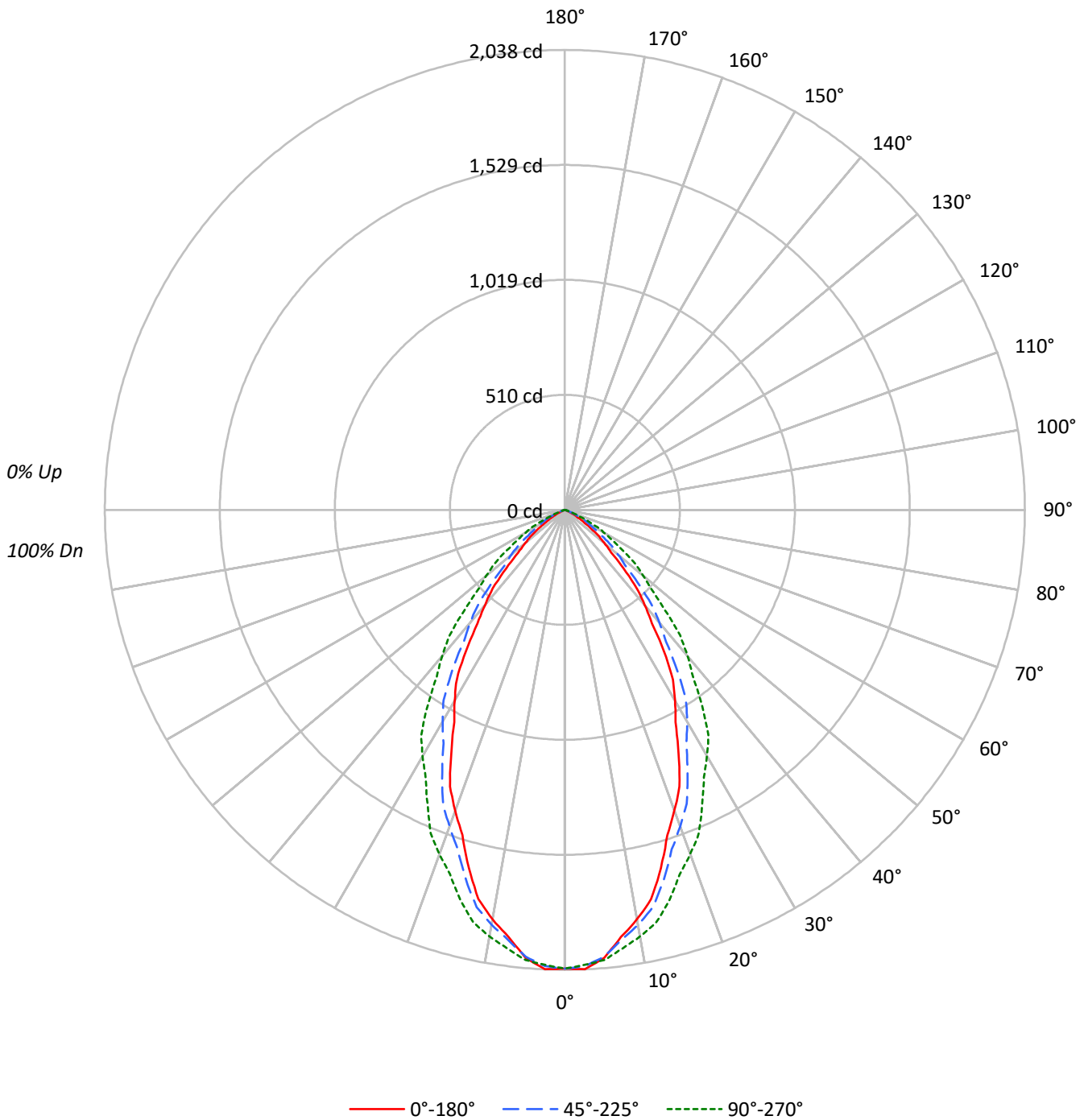
Lumens per Lamp: N/A  
Luminaire Lumens: 2425.2 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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°	18757	18757	18757
5°	18454	18409	18546
10°	17267	17498	17987
15°	15698	16196	17097
20°	13934	14659	15943
25°	12135	13097	14648
30°	10395	11537	13422
35°	8619	9792	11942
40°	6622	7830	10176
45°	4787	5929	8188
50°	3261	4418	6493
55°	2120	3196	5046
60°	1216	2251	3648
65°	323	1373	1847
70°	159	424	531
75°	71	36	0
80°	53	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	7.7
10°-20°	474.5	19.6
20°-30°	594.0	24.5
30°-40°	548.6	22.6
40°-50°	368.7	15.2
50°-60°	190.4	7.9
60°-70°	59.6	2.5
70°-80°	3.8	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°	1254.0	51.7
0°-40°	1802.6	74.3
0°-60°	2361.7	97.4
0°-90°	2425.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	1993	1972	1988	1995	2002	185
15°	1644	1638	1696	1752	1790	458
25°	1192	1202	1286	1374	1439	546
35°	765	784	869	972	1060	474
45°	367	389	454	543	628	288
55°	132	154	199	255	314	123
65°	15	28	63	76	85	25
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°	2033.0	2033.0	2033.0	2033.0	2033.0
2.5°	2037.7	2018.5	2023.5	2023.4	2018.0
5°	1992.6	1972.5	1987.7	1994.8	2002.5
7.5°	1908.5	1892.7	1922.0	1944.0	1960.0
10°	1843.1	1829.7	1867.7	1897.7	1919.9
12.5°	1767.6	1757.2	1803.2	1844.4	1872.7
15°	1643.5	1637.7	1695.6	1752.5	1790.0
17.5°	1510.5	1510.3	1576.4	1647.1	1692.3
20°	1419.2	1422.1	1493.0	1570.9	1623.8
22.5°	1328.0	1334.7	1410.4	1491.6	1552.2
25°	1192.0	1201.7	1286.5	1374.5	1438.9
27.5°	1061.4	1075.5	1164.7	1256.2	1334.7
30°	975.7	992.0	1082.9	1179.1	1259.9
32.5°	891.5	910.9	999.5	1101.3	1183.6
35°	765.2	784.4	869.4	971.8	1060.3
37.5°	634.8	653.6	736.7	837.4	933.0
40°	549.8	571.0	650.1	747.7	844.9
42.5°	472.7	493.8	568.3	664.2	755.9
45°	366.9	389.0	454.4	542.9	627.5
47.5°	279.1	303.2	360.6	440.6	517.7
50°	227.2	251.2	307.8	378.4	452.4
52.5°	185.5	208.8	259.9	326.3	394.2
55°	131.8	153.9	198.7	255.1	313.7
57.5°	91.1	110.1	150.3	197.4	243.3
60°	65.9	84.2	122.0	160.2	197.7
62.5°	43.9	60.6	97.6	126.9	152.1
65°	14.8	28.2	62.9	75.9	84.6
67.5°	7.5	9.0	33.0	34.9	37.8
70°	5.9	5.9	15.7	16.8	19.7
72.5°	4.3	4.3	6.3	8.1	8.7
75°	2.0	2.0	1.0	0.0	0.0
77.5°	1.0	1.0	0.8	0.0	0.0
80°	1.0	1.0	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)