

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: P518649

Luminaire Tested: **SQ4-BB-0U-100D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518649
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-100D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

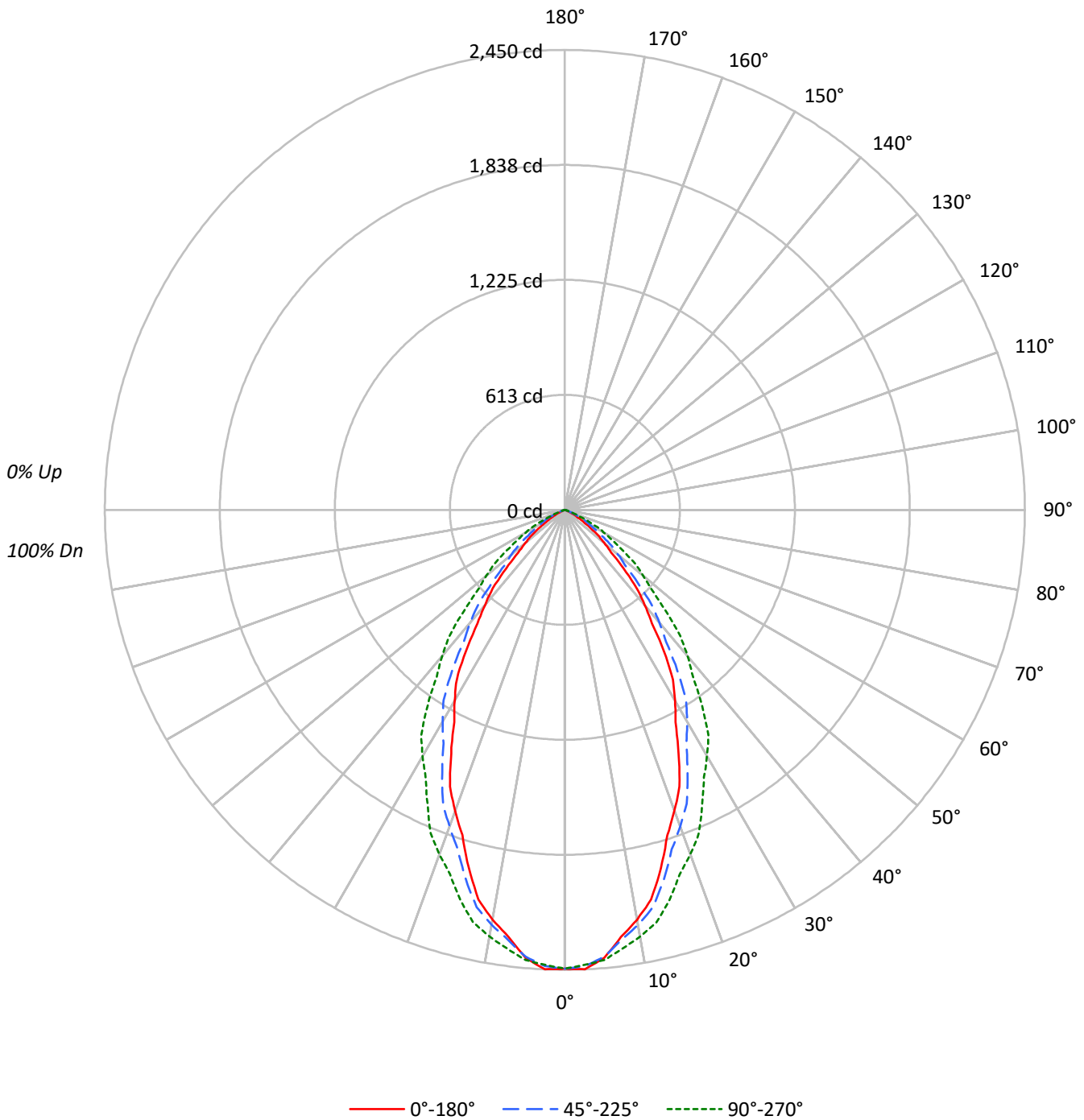
Lumens per Lamp: N/A
Luminaire Lumens: 2915.9 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 55.3
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°	15034	15034	15034
5°	14793	14756	14866
10°	13841	14026	14417
15°	12583	12982	13705
20°	11169	11750	12780
25°	9727	10498	11742
30°	8332	9247	10759
35°	6908	7850	9572
40°	5307	6277	8156
45°	3837	4752	6563
50°	2614	3541	5206
55°	1700	2562	4045
60°	974	1803	2924
65°	258	1102	1480
70°	128	340	426
75°	57	29	0
80°	43	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	7.7
10°-20°	570.5	19.6
20°-30°	714.2	24.5
30°-40°	659.7	22.6
40°-50°	443.3	15.2
50°-60°	228.9	7.9
60°-70°	71.7	2.5
70°-80°	4.5	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°	1507.7	51.7
0°-40°	2167.4	74.3
0°-60°	2839.6	97.4
0°-90°	2915.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2444	2444	2444	2444	2444	
5°	2396	2372	2390	2398	2408	222
15°	1976	1969	2039	2107	2152	550
25°	1433	1445	1547	1653	1730	657
35°	920	943	1045	1168	1275	570
45°	441	468	546	653	754	346
55°	158	185	239	307	377	148
65°	18	34	76	91	102	30
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2444.3	2444.3	2444.3	2444.3	2444.3
2.5°	2450.0	2426.9	2433.0	2432.8	2426.4
5°	2395.9	2371.6	2389.9	2398.4	2407.7
7.5°	2294.6	2275.7	2310.9	2337.4	2356.6
10°	2216.1	2199.9	2245.7	2281.8	2308.3
12.5°	2125.3	2112.8	2168.1	2217.6	2251.6
15°	1976.0	1969.1	2038.7	2107.2	2152.2
17.5°	1816.2	1815.9	1895.4	1980.4	2034.7
20°	1706.4	1709.9	1795.1	1888.8	1952.4
22.5°	1596.7	1604.8	1695.8	1793.5	1866.3
25°	1433.3	1444.8	1546.8	1652.6	1730.1
27.5°	1276.2	1293.1	1400.4	1510.4	1604.7
30°	1173.1	1192.8	1302.0	1417.7	1514.9
32.5°	1071.9	1095.2	1201.7	1324.1	1423.1
35°	920.0	943.2	1045.4	1168.4	1274.8
37.5°	763.2	785.9	885.7	1006.8	1121.8
40°	661.0	686.5	781.7	899.0	1015.8
42.5°	568.3	593.8	683.3	798.6	908.9
45°	441.1	467.7	546.3	652.7	754.5
47.5°	335.6	364.5	433.5	529.8	622.5
50°	273.2	302.1	370.1	454.9	544.0
52.5°	223.0	251.0	312.4	392.3	474.0
55°	158.5	185.1	238.9	306.7	377.2
57.5°	109.5	132.4	180.7	237.3	292.6
60°	79.2	101.2	146.6	192.6	237.7
62.5°	52.7	72.9	117.3	152.5	182.8
65°	17.7	33.9	75.7	91.3	101.7
67.5°	9.0	10.8	39.7	41.9	45.4
70°	7.1	7.1	18.9	20.2	23.7
72.5°	5.2	5.2	7.6	9.7	10.4
75°	2.4	2.4	1.2	0.0	0.0
77.5°	1.2	1.2	0.9	0.0	0.0
80°	1.2	1.2	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)