

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521180

Luminaire Tested: **SQ4-BB-0U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521180
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-0U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

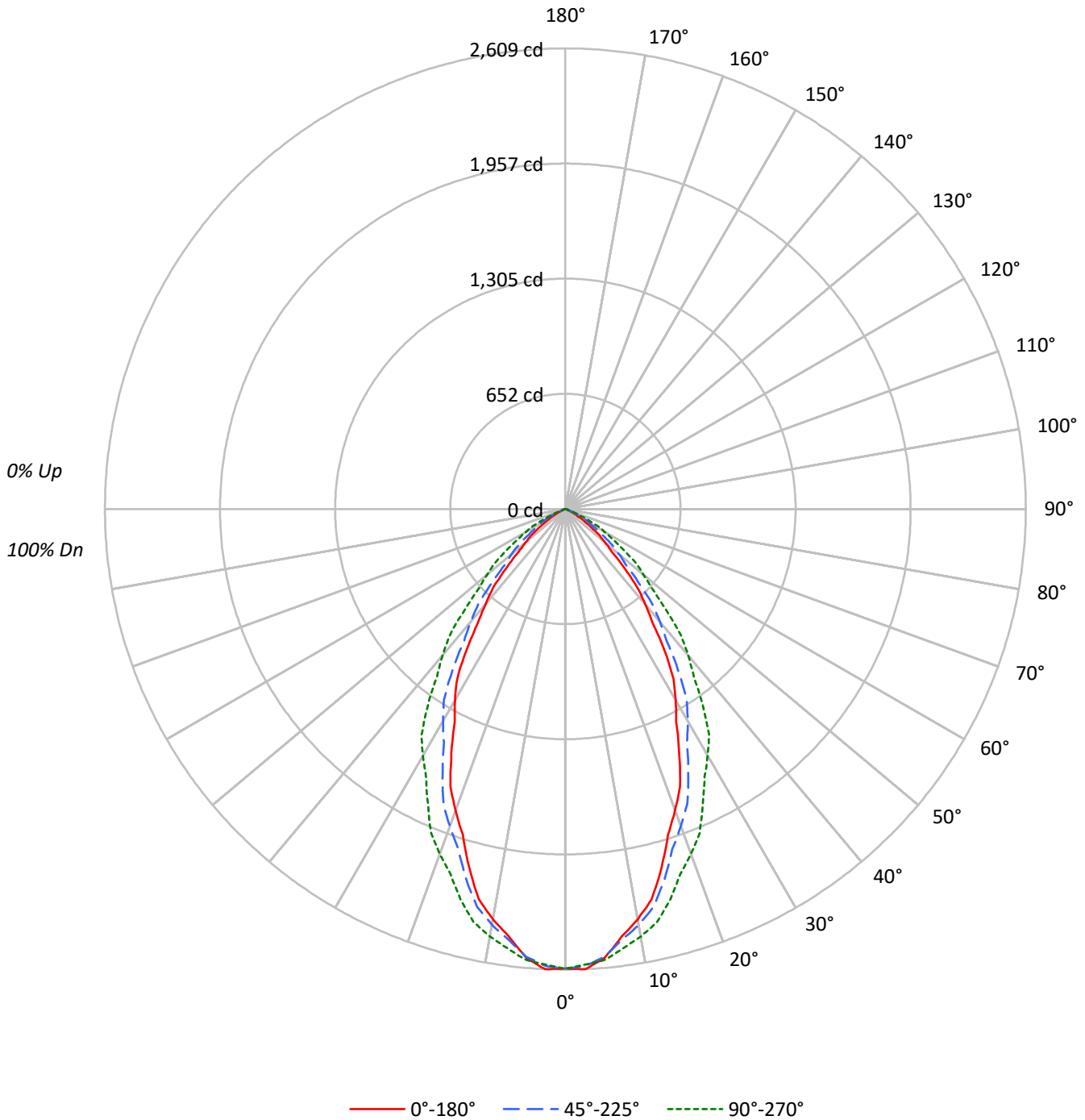
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3105.6 lumens
Efficiency: N/A
Efficacy: 55.9 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): 55.6
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24019	24019	24019
5°	23633	23575	23750
10°	22113	22408	23033
15°	20102	20740	21895
20°	17845	18772	20416
25°	15540	16771	18759
30°	13310	14773	17188
35°	11037	12540	15292
40°	8480	10027	13030
45°	6130	7593	10485
50°	4175	5658	8316
55°	2715	4092	6463
60°	1557	2882	4672
65°	413	1760	2364
70°	205	545	680
75°	89	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.6	7.7
10°-20°	607.6	19.6
20°-30°	760.6	24.5
30°-40°	702.6	22.6
40°-50°	472.1	15.2
50°-60°	243.8	7.9
60°-70°	76.4	2.5
70°-80°	4.8	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°	1605.8	51.7
0°-40°	2308.4	74.3
0°-60°	3024.3	97.4
0°-90°	3105.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2552	2526	2546	2554	2564	237
15°	2105	2097	2171	2244	2292	586
25°	1526	1539	1647	1760	1843	700
35°	980	1004	1113	1244	1358	607
45°	470	498	582	695	804	369
55°	169	197	254	327	402	157
65°	19	36	81	97	108	32
75°	2	2	1	0	0	4
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°	2603.4	2603.4	2603.4	2603.4	2603.4
2.5°	2609.4	2584.8	2591.3	2591.1	2584.3
5°	2551.8	2525.9	2545.5	2554.5	2564.4
7.5°	2443.9	2423.7	2461.3	2489.5	2509.9
10°	2360.3	2343.1	2391.8	2430.2	2458.6
12.5°	2263.6	2250.3	2309.2	2361.9	2398.1
15°	2104.6	2097.2	2171.4	2244.3	2292.3
17.5°	1934.3	1934.1	2018.7	2109.2	2167.1
20°	1817.5	1821.2	1911.9	2011.7	2079.4
22.5°	1700.6	1709.2	1806.1	1910.2	1987.7
25°	1526.5	1538.8	1647.4	1760.1	1842.7
27.5°	1359.3	1377.2	1491.5	1608.7	1709.1
30°	1249.4	1270.4	1386.7	1510.0	1613.4
32.5°	1141.6	1166.5	1279.9	1410.3	1515.7
35°	979.9	1004.5	1113.4	1244.4	1357.7
37.5°	812.9	837.0	943.4	1072.4	1194.8
40°	704.1	731.2	832.5	957.5	1081.9
42.5°	605.3	632.4	727.7	850.6	968.1
45°	469.8	498.1	581.9	695.2	803.6
47.5°	357.4	388.2	461.7	564.2	663.0
50°	290.9	321.7	394.2	484.5	579.4
52.5°	237.5	267.3	332.8	417.9	504.8
55°	168.8	197.1	254.4	326.7	401.8
57.5°	116.6	141.0	192.5	252.7	311.6
60°	84.4	107.8	156.2	205.1	253.2
62.5°	56.2	77.6	124.9	162.5	194.7
65°	18.9	36.1	80.6	97.2	108.3
67.5°	9.6	11.5	42.3	44.7	48.4
70°	7.6	7.6	20.2	21.5	25.2
72.5°	5.5	5.5	8.1	10.3	11.1
75°	2.5	2.5	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	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)