

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: P521182

Luminaire Tested: **SQ4-BB-0U-125D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521182
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

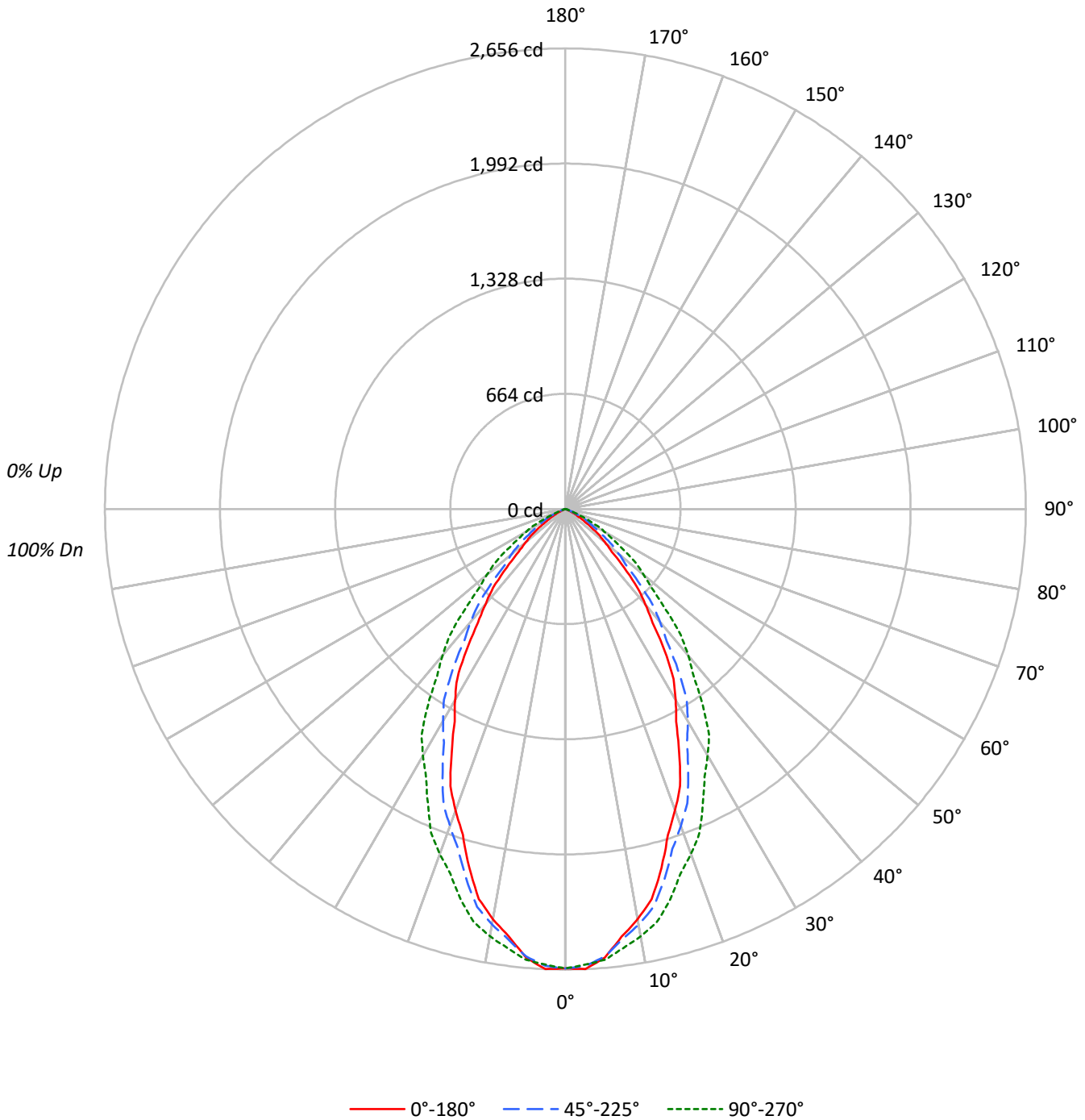
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3160.9 lumens
Efficiency: N/A
Efficacy: 57.0 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): 55.5
Input Voltage (V): 120
Input Current (A_{in}): 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°	24447	24447	24447
5°	24053	23994	24172
10°	22506	22806	23443
15°	20461	21109	22285
20°	18162	19105	20779
25°	15817	17069	19092
30°	13547	15036	17494
35°	11233	12763	15564
40°	8631	10205	13263
45°	6238	7727	10672
50°	4250	5759	8464
55°	2763	4165	6577
60°	1585	2934	4755
65°	419	1790	2406
70°	208	553	691
75°	93	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	7.7
10°-20°	618.4	19.6
20°-30°	774.2	24.5
30°-40°	715.1	22.6
40°-50°	480.5	15.2
50°-60°	248.2	7.9
60°-70°	77.7	2.5
70°-80°	4.9	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°	1634.4	51.7
0°-40°	2349.4	74.3
0°-60°	3078.1	97.4
0°-90°	3160.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3160.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2650	2650	2650	2650	2650	
5°	2597	2571	2591	2600	2610	241
15°	2142	2134	2210	2284	2333	597
25°	1554	1566	1677	1791	1875	712
35°	997	1022	1133	1267	1382	618
45°	478	507	592	708	818	376
55°	172	201	259	332	409	160
65°	19	37	82	99	110	32
75°	3	3	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°	2649.7	2649.7	2649.7	2649.7	2649.7
2.5°	2655.8	2630.8	2637.4	2637.2	2630.2
5°	2597.1	2570.8	2590.7	2599.9	2610.0
7.5°	2487.4	2466.8	2505.1	2533.8	2554.6
10°	2402.3	2384.7	2434.3	2473.4	2502.3
12.5°	2303.8	2290.3	2350.2	2403.9	2440.7
15°	2142.1	2134.5	2210.0	2284.2	2333.1
17.5°	1968.7	1968.5	2054.6	2146.7	2205.6
20°	1849.8	1853.5	1945.9	2047.5	2116.4
22.5°	1730.8	1739.6	1838.2	1944.1	2023.1
25°	1553.7	1566.2	1676.7	1791.4	1875.4
27.5°	1383.4	1401.7	1518.0	1637.3	1739.5
30°	1271.6	1293.0	1411.4	1536.8	1642.1
32.5°	1161.9	1187.2	1302.7	1435.3	1542.6
35°	997.3	1022.4	1133.2	1266.6	1381.9
37.5°	827.3	851.9	960.1	1091.4	1216.0
40°	716.6	744.2	847.3	974.6	1101.2
42.5°	616.1	643.7	740.7	865.7	985.3
45°	478.1	507.0	592.2	707.6	817.9
47.5°	363.8	395.1	469.9	574.3	674.8
50°	296.1	327.5	401.2	493.2	589.7
52.5°	241.8	272.1	338.7	425.3	513.8
55°	171.8	200.6	258.9	332.5	408.9
57.5°	118.7	143.5	195.9	257.2	317.1
60°	85.9	109.7	159.0	208.8	257.7
62.5°	57.2	79.0	127.2	165.3	198.2
65°	19.2	36.8	82.0	99.0	110.2
67.5°	9.7	11.7	43.1	45.5	49.2
70°	7.7	7.7	20.5	21.9	25.6
72.5°	5.6	5.6	8.2	10.5	11.3
75°	2.6	2.6	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)