

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: P521181

Luminaire Tested: **SQ4-BB-0U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521181
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 (4000K)
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 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

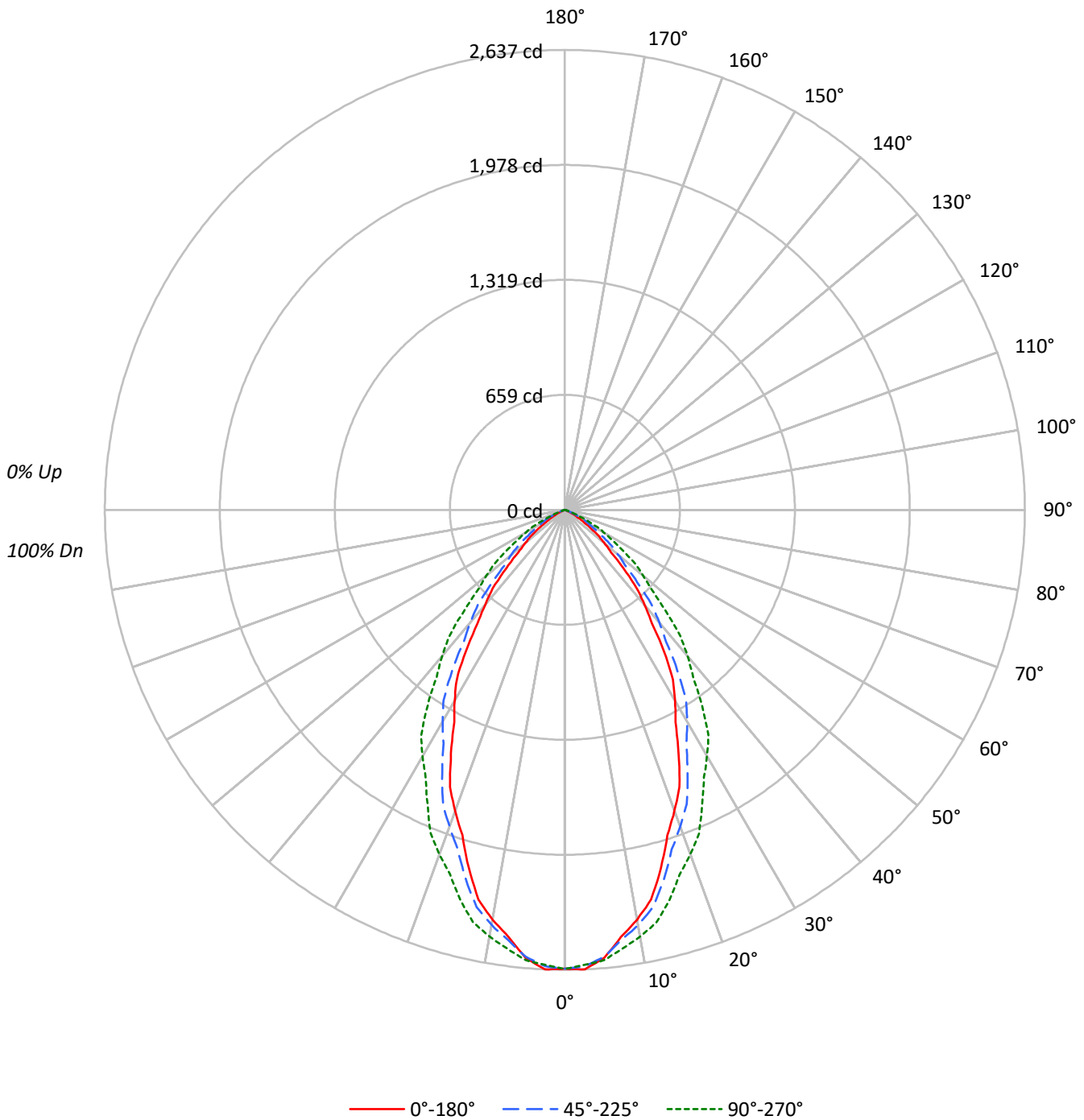
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3138.7 lumens
Efficiency: N/A
Efficacy: 56.5 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°	24275	24275	24275
5°	23884	23825	24002
10°	22348	22647	23278
15°	20316	20961	22128
20°	18034	18972	20634
25°	15706	16950	18958
30°	13452	14931	17372
35°	11154	12674	15455
40°	8570	10134	13169
45°	6195	7673	10596
50°	4220	5718	8404
55°	2744	4136	6532
60°	1574	2912	4722
65°	417	1779	2391
70°	205	550	688
75°	89	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	7.7
10°-20°	614.1	19.6
20°-30°	768.7	24.5
30°-40°	710.1	22.6
40°-50°	477.1	15.2
50°-60°	246.4	7.9
60°-70°	77.2	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°	1622.9	51.7
0°-40°	2333.0	74.3
0°-60°	3056.5	97.4
0°-90°	3138.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2631	2631	2631	2631	2631	
5°	2579	2553	2572	2582	2592	239
15°	2127	2120	2194	2268	2317	592
25°	1543	1555	1665	1779	1862	707
35°	990	1015	1125	1258	1372	613
45°	475	503	588	703	812	373
55°	171	199	257	330	406	159
65°	19	36	82	98	110	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°	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2637.2	2612.3	2618.9	2618.7	2611.8
5°	2578.9	2552.8	2572.5	2581.7	2591.6
7.5°	2469.9	2449.5	2487.5	2516.0	2536.6
10°	2385.4	2368.0	2417.3	2456.1	2484.7
12.5°	2287.7	2274.2	2333.7	2387.0	2423.6
15°	2127.0	2119.6	2194.5	2268.2	2316.7
17.5°	1954.9	1954.7	2040.2	2131.7	2190.2
20°	1836.8	1840.5	1932.3	2033.1	2101.6
22.5°	1718.7	1727.4	1825.3	1930.5	2008.9
25°	1542.8	1555.2	1665.0	1778.9	1862.3
27.5°	1373.7	1391.9	1507.4	1625.8	1727.3
30°	1262.7	1283.9	1401.5	1526.0	1630.6
32.5°	1153.8	1178.9	1293.5	1425.3	1531.8
35°	990.3	1015.2	1125.3	1257.7	1372.2
37.5°	821.5	845.9	953.4	1083.8	1207.5
40°	711.6	738.9	841.4	967.7	1093.4
42.5°	611.8	639.1	735.5	859.6	978.4
45°	474.8	503.4	588.1	702.6	812.1
47.5°	361.3	392.4	466.6	570.2	670.1
50°	294.0	325.2	398.4	489.7	585.5
52.5°	240.1	270.2	336.3	422.3	510.2
55°	170.6	199.2	257.1	330.1	406.1
57.5°	117.9	142.5	194.5	255.4	314.9
60°	85.3	108.9	157.8	207.3	255.9
62.5°	56.8	78.4	126.3	164.2	196.8
65°	19.1	36.5	81.5	98.3	109.5
67.5°	9.7	11.7	42.8	45.1	48.9
70°	7.6	7.6	20.4	21.7	25.5
72.5°	5.6	5.6	8.1	10.5	11.2
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)