

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: P521183

Luminaire Tested: **SQ4-BB-0U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521183
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 (5000K)
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 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

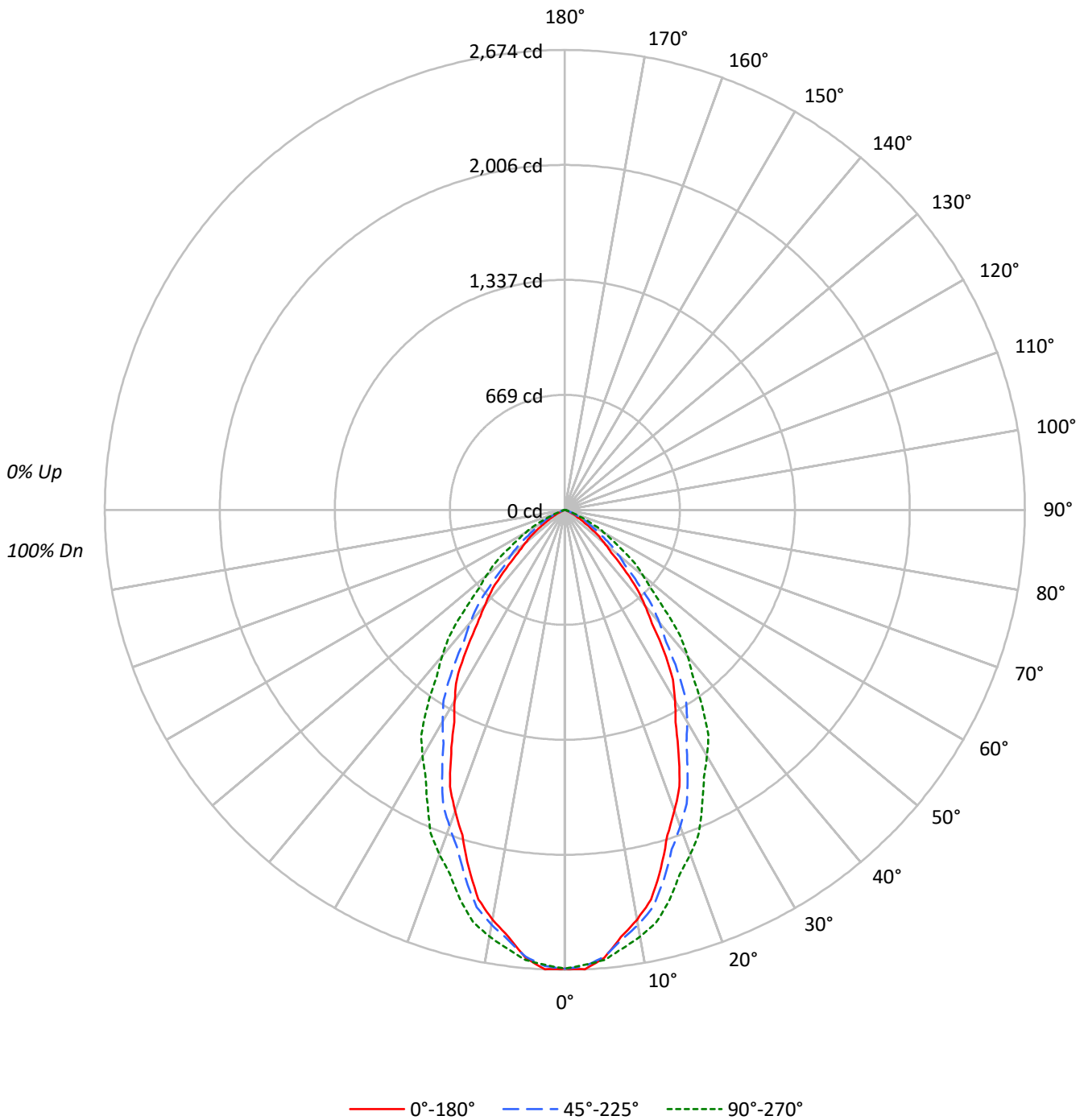
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3182.4 lumens
Efficiency: N/A
Efficacy: 57.3 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 (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°	24614	24614	24614
5°	24217	24158	24336
10°	22660	22961	23602
15°	20600	21253	22437
20°	18286	19236	20922
25°	15925	17186	19222
30°	13640	15139	17613
35°	11309	12850	15670
40°	8690	10275	13353
45°	6281	7780	10744
50°	4279	5799	8522
55°	2781	4193	6622
60°	1596	2952	4787
65°	424	1803	2423
70°	208	558	696
75°	93	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	7.7
10°-20°	622.6	19.6
20°-30°	779.4	24.5
30°-40°	719.9	22.6
40°-50°	483.8	15.2
50°-60°	249.9	7.9
60°-70°	78.3	2.5
70°-80°	5.0	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°	1645.5	51.7
0°-40°	2365.5	74.3
0°-60°	3099.1	97.4
0°-90°	3182.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2668	2668	2668	2668	2668	
5°	2615	2588	2608	2618	2628	242
15°	2157	2149	2225	2300	2349	601
25°	1564	1577	1688	1804	1888	717
35°	1004	1029	1141	1275	1391	622
45°	481	510	596	712	823	378
55°	173	202	261	335	412	161
65°	19	37	83	100	111	33
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°	2667.8	2667.8	2667.8	2667.8	2667.8
2.5°	2674.0	2648.7	2655.4	2655.2	2648.1
5°	2614.8	2588.3	2608.4	2617.7	2627.7
7.5°	2504.4	2483.7	2522.2	2551.0	2572.0
10°	2418.7	2401.0	2450.9	2490.3	2519.3
12.5°	2319.5	2305.9	2366.3	2420.3	2457.4
15°	2156.7	2149.1	2225.1	2299.8	2349.0
17.5°	1982.2	1981.9	2068.6	2161.4	2220.7
20°	1862.4	1866.2	1959.2	2061.4	2130.9
22.5°	1742.6	1751.5	1850.8	1957.4	2036.9
25°	1564.3	1576.9	1688.2	1803.7	1888.2
27.5°	1392.9	1411.3	1528.4	1648.4	1751.4
30°	1280.3	1301.8	1421.0	1547.3	1653.3
32.5°	1169.8	1195.3	1311.6	1445.1	1553.2
35°	1004.1	1029.4	1140.9	1275.2	1391.3
37.5°	833.0	857.7	966.7	1098.9	1224.3
40°	721.5	749.2	853.1	981.2	1108.7
42.5°	620.3	648.0	745.7	871.6	992.0
45°	481.4	510.4	596.3	712.4	823.4
47.5°	366.3	397.8	473.1	578.2	679.4
50°	298.1	329.7	404.0	496.5	593.7
52.5°	243.4	274.0	341.0	428.2	517.3
55°	172.9	202.0	260.7	334.7	411.7
57.5°	119.5	144.5	197.2	259.0	319.3
60°	86.5	110.5	160.0	210.2	259.4
62.5°	57.6	79.5	128.0	166.5	199.5
65°	19.4	37.0	82.6	99.6	111.0
67.5°	9.8	11.8	43.4	45.8	49.6
70°	7.7	7.7	20.7	22.0	25.8
72.5°	5.7	5.7	8.3	10.6	11.4
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)