

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: P518664

Luminaire Tested: **SQ4-BB-0U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518664
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-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

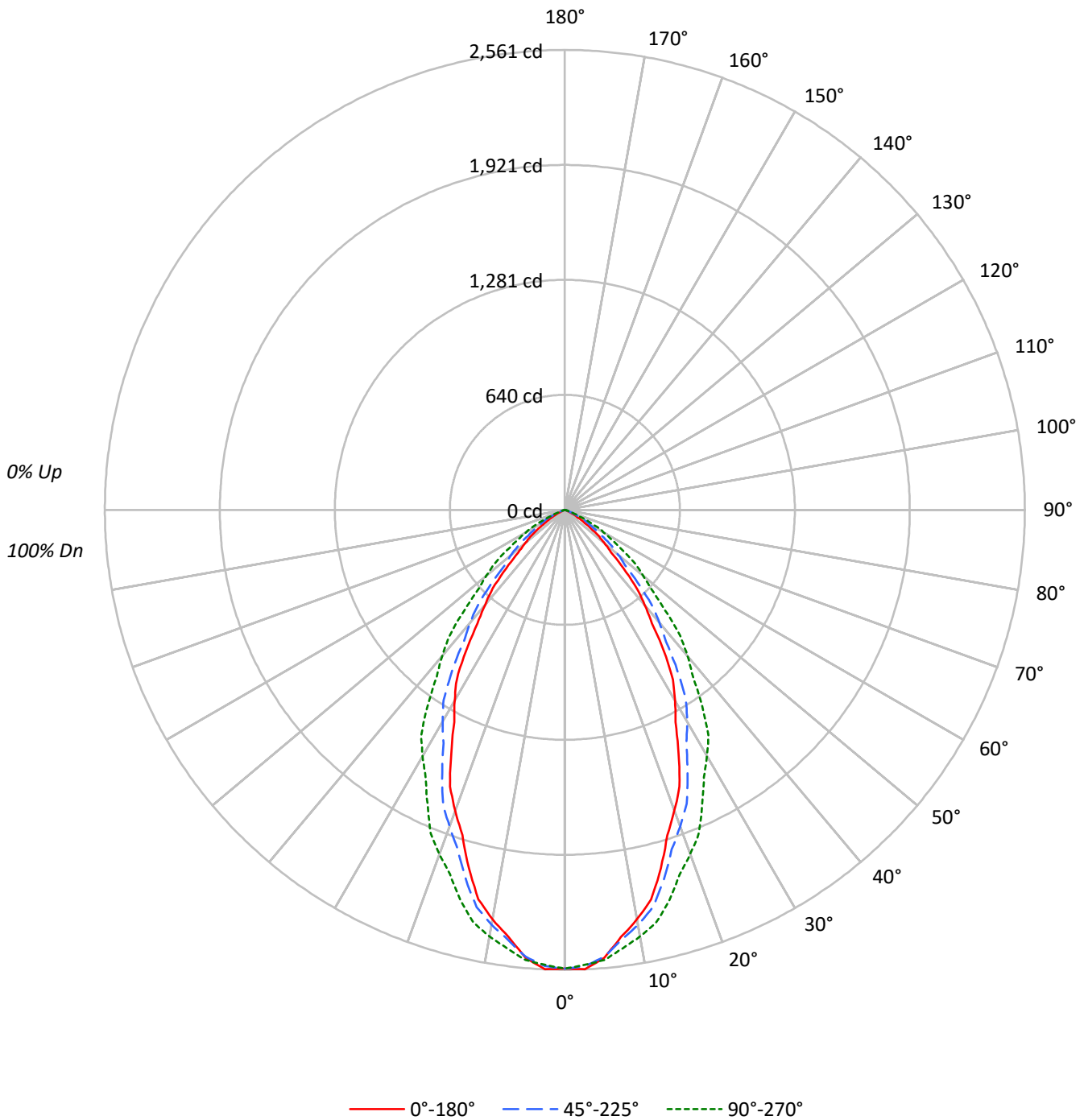
Lumens per Lamp: N/A
Luminaire Lumens: 3047.6 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.6
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°	23571	23571	23571
5°	23192	23134	23306
10°	21699	21989	22603
15°	19727	20353	21486
20°	17511	18421	20035
25°	15250	16458	18407
30°	13062	14497	16868
35°	10831	12306	15007
40°	8321	9840	12787
45°	6015	7450	10290
50°	4098	5553	8161
55°	2664	4017	6342
60°	1528	2829	4584
65°	404	1727	2321
70°	200	534	666
75°	89	43	0
80°	64	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	7.7
10°-20°	596.2	19.6
20°-30°	746.4	24.5
30°-40°	689.5	22.6
40°-50°	463.3	15.2
50°-60°	239.3	7.9
60°-70°	74.9	2.5
70°-80°	4.7	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°	1575.8	51.7
0°-40°	2265.3	74.3
0°-60°	2967.9	97.4
0°-90°	3047.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3047.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2504	2479	2498	2507	2516	232
15°	2065	2058	2131	2202	2250	575
25°	1498	1510	1617	1727	1808	687
35°	962	986	1093	1221	1332	596
45°	461	489	571	682	789	362
55°	166	193	250	321	394	155
65°	18	36	79	95	106	31
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2554.8	2554.8	2554.8	2554.8	2554.8
2.5°	2560.7	2536.5	2542.9	2542.8	2536.0
5°	2504.1	2478.7	2497.9	2506.8	2516.5
7.5°	2398.3	2378.5	2415.4	2443.0	2463.1
10°	2316.2	2299.3	2347.1	2384.8	2412.6
12.5°	2221.3	2208.3	2266.0	2317.8	2353.3
15°	2065.3	2058.1	2130.8	2202.4	2249.5
17.5°	1898.2	1898.0	1981.0	2069.8	2126.6
20°	1783.5	1787.1	1876.2	1974.1	2040.6
22.5°	1668.8	1677.3	1772.4	1874.5	1950.6
25°	1498.0	1510.1	1616.7	1727.3	1808.2
27.5°	1333.9	1351.5	1463.6	1578.6	1677.2
30°	1226.1	1246.6	1360.8	1481.8	1583.3
32.5°	1120.3	1144.7	1256.0	1383.9	1487.4
35°	961.6	985.8	1092.6	1221.2	1332.4
37.5°	797.7	821.4	925.7	1052.3	1172.5
40°	690.9	717.5	817.0	939.6	1061.7
42.5°	594.0	620.6	714.1	834.7	950.0
45°	461.0	488.8	571.0	682.2	788.6
47.5°	350.8	381.0	453.1	553.7	650.6
50°	285.5	315.7	386.9	475.5	568.6
52.5°	233.1	262.4	326.5	410.1	495.4
55°	165.6	193.4	249.7	320.6	394.3
57.5°	114.5	138.4	188.9	248.0	305.8
60°	82.8	105.8	153.3	201.3	248.4
62.5°	55.1	76.2	122.6	159.4	191.1
65°	18.5	35.5	79.1	95.4	106.3
67.5°	9.4	11.3	41.5	43.8	47.5
70°	7.4	7.4	19.8	21.1	24.7
72.5°	5.4	5.4	7.9	10.2	10.9
75°	2.5	2.5	1.2	0.0	0.0
77.5°	1.2	1.2	1.0	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)