

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: P518376

Luminaire Tested: **SQ4-BB-025U-125D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518376
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

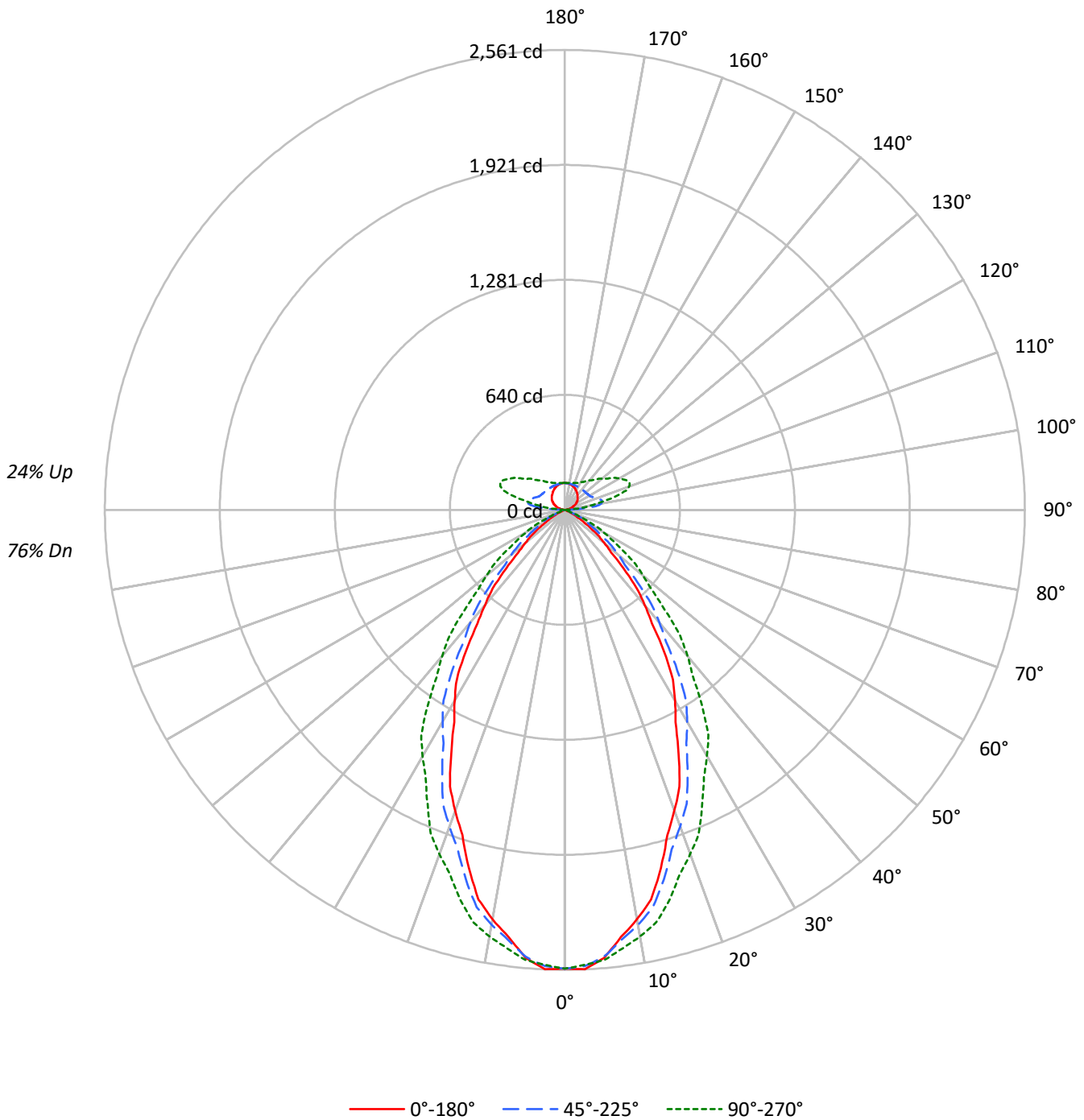
Lumens per Lamp: N/A
Luminaire Lumens: 4014.3 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	80	80	80	76	
1	106	103	100	97	101	98	96	93	90	88	86	82	81	79	75	74	73	75	74	73	69	
2	99	93	88	84	95	89	85	81	82	79	76	75	73	71	69	67	66	69	67	66	63	
3	92	84	78	74	88	81	76	71	75	71	67	69	66	63	64	62	59	64	62	59	57	
4	86	77	70	65	82	74	68	63	69	64	60	64	60	57	59	56	54	59	56	54	51	
5	80	70	63	58	77	68	62	57	63	58	54	59	55	51	55	52	49	55	52	49	46	
6	75	65	57	52	72	62	56	51	58	53	49	55	50	47	51	47	45	51	47	45	42	
7	70	59	52	47	67	58	51	46	54	49	45	51	46	43	48	44	41	48	44	41	39	
8	66	55	48	43	63	53	47	42	50	45	41	47	43	39	44	41	38	44	41	38	36	
9	62	51	44	40	60	50	43	39	47	41	38	44	40	36	42	38	35	42	38	35	33	
10	59	48	41	37	56	46	40	36	44	38	35	41	37	34	39	35	32	39	35	32	31	

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	5.8
10°-20°	596.2	14.9
20°-30°	746.4	18.6
30°-40°	689.5	17.2
40°-50°	463.3	11.5
50°-60°	239.3	6.0
60°-70°	74.9	1.9
70°-80°	4.7	0.1
80°-90°	0.9	0.0
90°-100°	72.6	1.8
100°-110°	190.9	4.8
110°-120°	198.0	4.9
120°-130°	158.8	4.0
130°-140°	124.6	3.1
140°-150°	95.6	2.4
150°-160°	68.9	1.7
160°-170°	42.1	1.0
170°-180°	14.2	0.4
0°-30°	1575.8	39.3
0°-40°	2265.3	56.4
0°-60°	2967.9	73.9
0°-90°	3048.4	75.9
90°-120°	461.6	11.5
90°-150°	840.6	20.9
90°-180°	966.0	24.1
0°-180°	4014.3	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°	1	3	8	4	4	1
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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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°	0.2	0.6	1.5	0.8	0.8
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)