

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: P518856

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518856
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

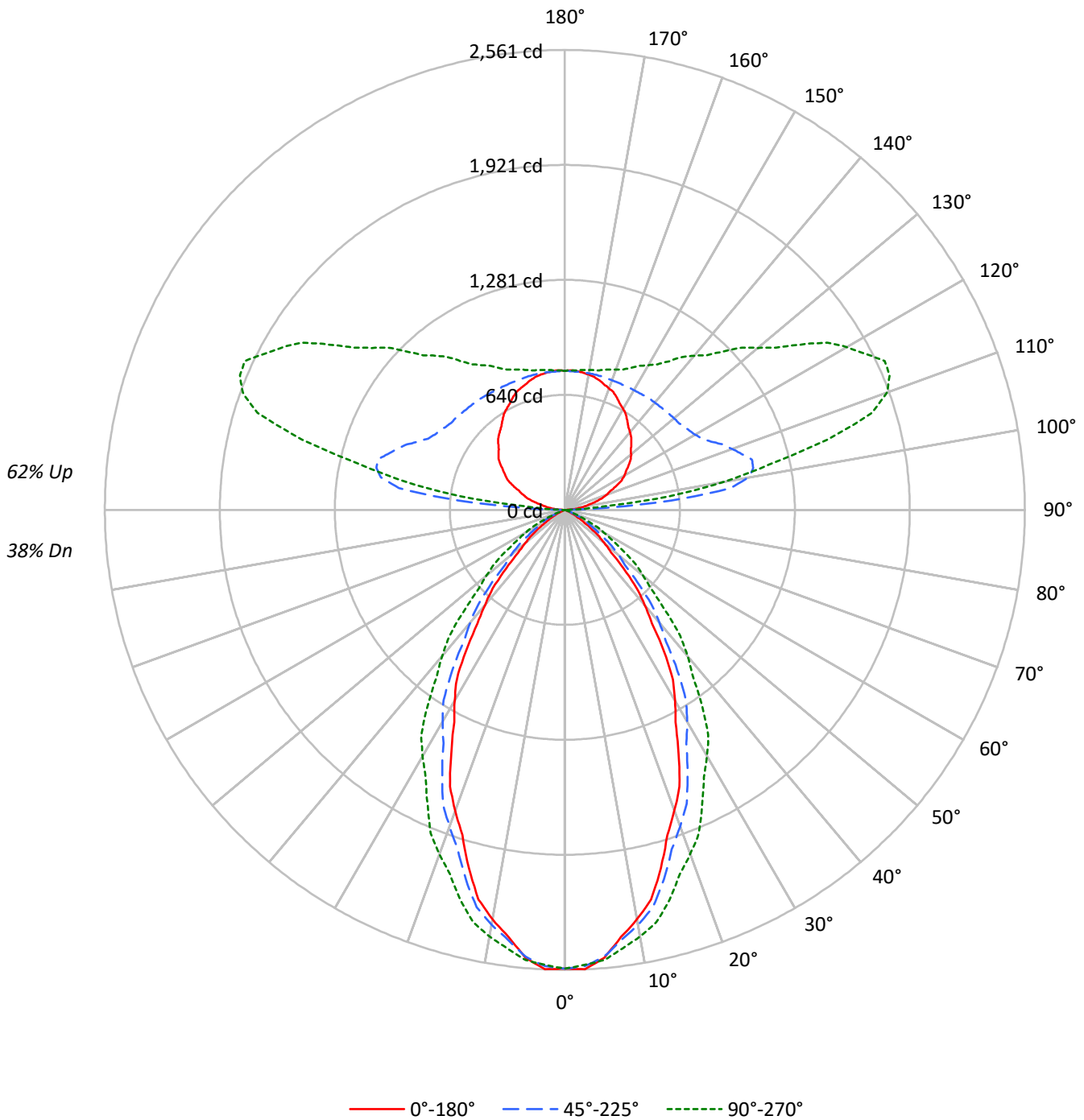
Lumens per Lamp: N/A
Luminaire Lumens: 8048.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 75.3
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



TEST NUMBER: P518856
CATALOG NUMBER: SQ4-BB-125U-125D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P518856

CATALOG NUMBER: SQ4-BB-125U-125D-835-1D-UNV-STD-W-4

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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	93	89	86	88	84	82	79	69	67	66	55	54	53	42	41	41	35
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	39	37	36	31
3	82	74	67	62	75	68	62	58	56	52	49	45	43	41	35	34	33	28
4	76	66	59	54	69	61	55	50	51	47	43	41	38	36	33	31	29	26
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23
6	65	54	47	42	59	50	44	39	42	37	34	35	32	29	28	26	24	21
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	19
8	56	45	38	33	51	42	36	31	36	31	28	30	26	24	24	22	20	18
9	53	41	35	30	48	39	32	28	33	28	25	28	24	22	23	20	19	17
10	49	38	32	27	45	36	30	26	31	26	23	26	22	20	21	19	17	15

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



TEST NUMBER: P518856

CATALOG NUMBER: SQ4-BB-125U-125D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	2.9
10°-20°	596.2	7.4
20°-30°	746.4	9.3
30°-40°	689.5	8.6
40°-50°	463.3	5.8
50°-60°	239.3	3.0
60°-70°	74.9	0.9
70°-80°	4.7	0.1
80°-90°	1.9	0.0
90°-100°	362.3	4.5
100°-110°	975.9	12.1
110°-120°	1024.2	12.7
120°-130°	831.1	10.3
130°-140°	651.8	8.1
140°-150°	500.4	6.2
150°-160°	359.8	4.5
160°-170°	219.8	2.7
170°-180°	74.1	0.9
0°-30°	1575.8	19.6
0°-40°	2265.3	28.1
0°-60°	2967.9	36.9
0°-90°	3049.4	37.9
90°-120°	2362.3	29.3
90°-150°	4345.6	54.0
90°-180°	4999.0	62.1
0°-180°	8048.8	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°	2	6	12	13	13	4
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

TEST NUMBER: P518856

CATALOG NUMBER: SQ4-BB-125U-125D-835-1D-UNV-STD-W-4

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°	0.4	1.2	2.4	2.6	2.6
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9

TEST NUMBER: P518856

CATALOG NUMBER: SQ4-BB-125U-125D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)