

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: P518817

Luminaire Tested: **SQ4-BB-125U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518817
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-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

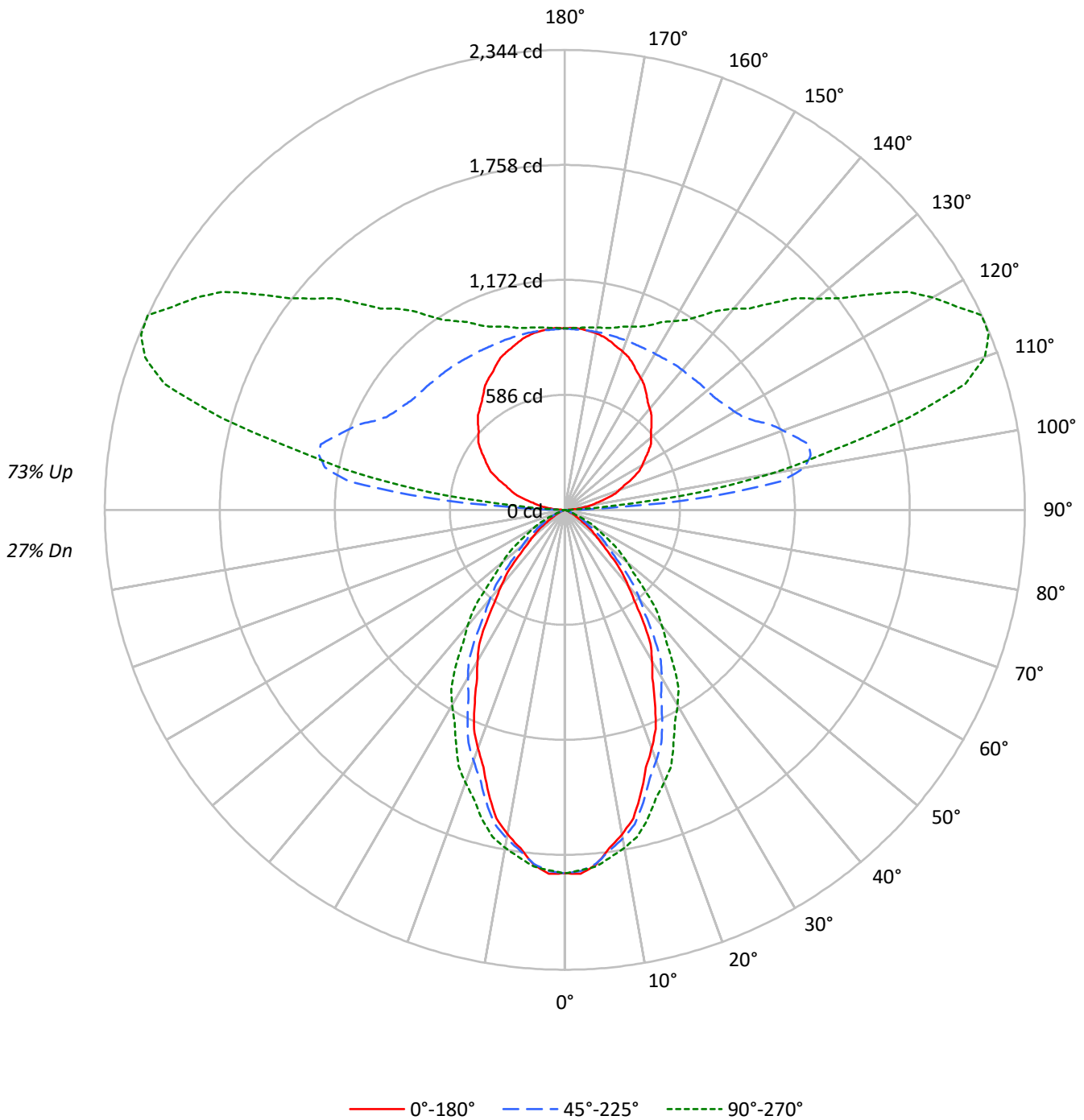
Lumens per Lamp: N/A
Luminaire Lumens: 8179.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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: P518817
CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P518817

CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-6

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27				
1	94	90	86	83	84	81	78	75	63	61	60	47	46	45	32	32	31	25				
2	86	80	74	70	77	71	67	63	56	53	51	43	41	39	30	29	28	22				
3	79	71	64	59	71	64	58	54	51	47	44	39	36	34	27	26	25	20				
4	73	63	56	51	65	57	51	47	46	42	38	35	32	30	25	24	22	18				
5	67	57	49	44	60	51	45	41	41	37	34	32	29	27	23	21	20	17				
6	62	51	44	39	56	46	40	36	37	33	30	29	26	24	21	20	18	15				
7	58	46	39	34	52	42	36	32	34	30	27	27	24	22	20	18	17	14				
8	53	42	35	30	48	39	32	28	31	27	24	25	22	20	18	17	15	13				
9	50	39	32	27	45	35	29	25	29	25	22	23	20	18	17	15	14	12				
10	47	36	29	25	42	33	27	23	27	22	20	21	18	16	16	14	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11393	11393	11393
5°	11209	11182	11265
10°	10488	10628	10925
15°	9535	9838	10385
20°	8464	8904	9684
25°	7371	7955	8897
30°	6314	7007	8153
35°	5235	5948	7253
40°	4022	4756	6181
45°	2908	3601	4973
50°	1981	2684	3944
55°	1288	1941	3066
60°	738	1367	2216
65°	195	835	1122
70°	97	257	322
75°	43	21	0
80°	32	0	0
85°	0	0	0



TEST NUMBER: P518817

CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	2.1
10°-20°	432.3	5.3
20°-30°	541.2	6.6
30°-40°	499.9	6.1
40°-50°	335.9	4.1
50°-60°	173.5	2.1
60°-70°	54.3	0.7
70°-80°	3.4	0.0
80°-90°	2.2	0.0
90°-100°	432.4	5.3
100°-110°	1164.8	14.2
110°-120°	1222.5	14.9
120°-130°	992.0	12.1
130°-140°	778.0	9.5
140°-150°	597.3	7.3
150°-160°	429.5	5.3
160°-170°	262.4	3.2
170°-180°	88.5	1.1
0°-30°	1142.5	14.0
0°-40°	1642.4	20.1
0°-60°	2151.8	26.3
0°-90°	2211.8	27.0
90°-120°	2819.7	34.5
90°-150°	5187.0	63.4
90°-180°	5967.0	73.0
0°-180°	8179.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1816	1797	1811	1818	1824	168
15°	1497	1492	1545	1597	1631	417
25°	1086	1095	1172	1252	1311	498
35°	697	715	792	885	966	432
45°	334	354	414	495	572	263
55°	120	140	181	232	286	112
65°	13	26	57	69	77	23
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	7	14	15	15	5
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



TEST NUMBER: P518817

CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.3	1852.3	1852.3	1852.3	1852.3
2.5°	1856.6	1839.1	1843.7	1843.6	1838.7
5°	1815.5	1797.1	1811.1	1817.5	1824.5
7.5°	1738.8	1724.5	1751.2	1771.2	1785.8
10°	1679.3	1667.1	1701.7	1729.1	1749.2
12.5°	1610.5	1601.0	1642.9	1680.5	1706.2
15°	1497.4	1492.2	1544.9	1596.8	1630.9
17.5°	1376.3	1376.1	1436.3	1500.7	1541.9
20°	1293.1	1295.7	1360.3	1431.3	1479.5
22.5°	1209.9	1216.1	1285.0	1359.1	1414.3
25°	1086.1	1094.9	1172.1	1252.3	1311.0
27.5°	967.1	979.9	1061.2	1144.5	1216.0
30°	889.0	903.8	986.6	1074.3	1147.9
32.5°	812.2	829.9	910.6	1003.4	1078.4
35°	697.2	714.7	792.2	885.4	966.0
37.5°	578.4	595.5	671.2	763.0	850.1
40°	500.9	520.2	592.3	681.3	769.8
42.5°	430.7	450.0	517.8	605.2	688.8
45°	334.3	354.4	414.0	494.6	571.7
47.5°	254.3	276.2	328.5	401.4	471.7
50°	207.0	228.9	280.5	344.7	412.2
52.5°	169.0	190.2	236.8	297.3	359.2
55°	120.1	140.2	181.0	232.4	285.9
57.5°	83.0	100.3	136.9	179.8	221.7
60°	60.0	76.7	111.1	145.9	180.1
62.5°	40.0	55.2	88.9	115.6	138.5
65°	13.4	25.7	57.4	69.2	77.1
67.5°	6.8	8.2	30.1	31.8	34.4
70°	5.4	5.4	14.3	15.3	17.9
72.5°	3.9	3.9	5.7	7.4	7.9
75°	1.8	1.8	0.9	0.0	0.0
77.5°	0.9	0.9	0.7	0.0	0.0
80°	0.9	0.9	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°	0.5	1.4	2.8	3.1	3.1
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



TEST NUMBER: P518817

CATALOG NUMBER: SQ4-BB-125U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)