

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: P518870

Luminaire Tested: **SQ4-BB-125U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518870
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

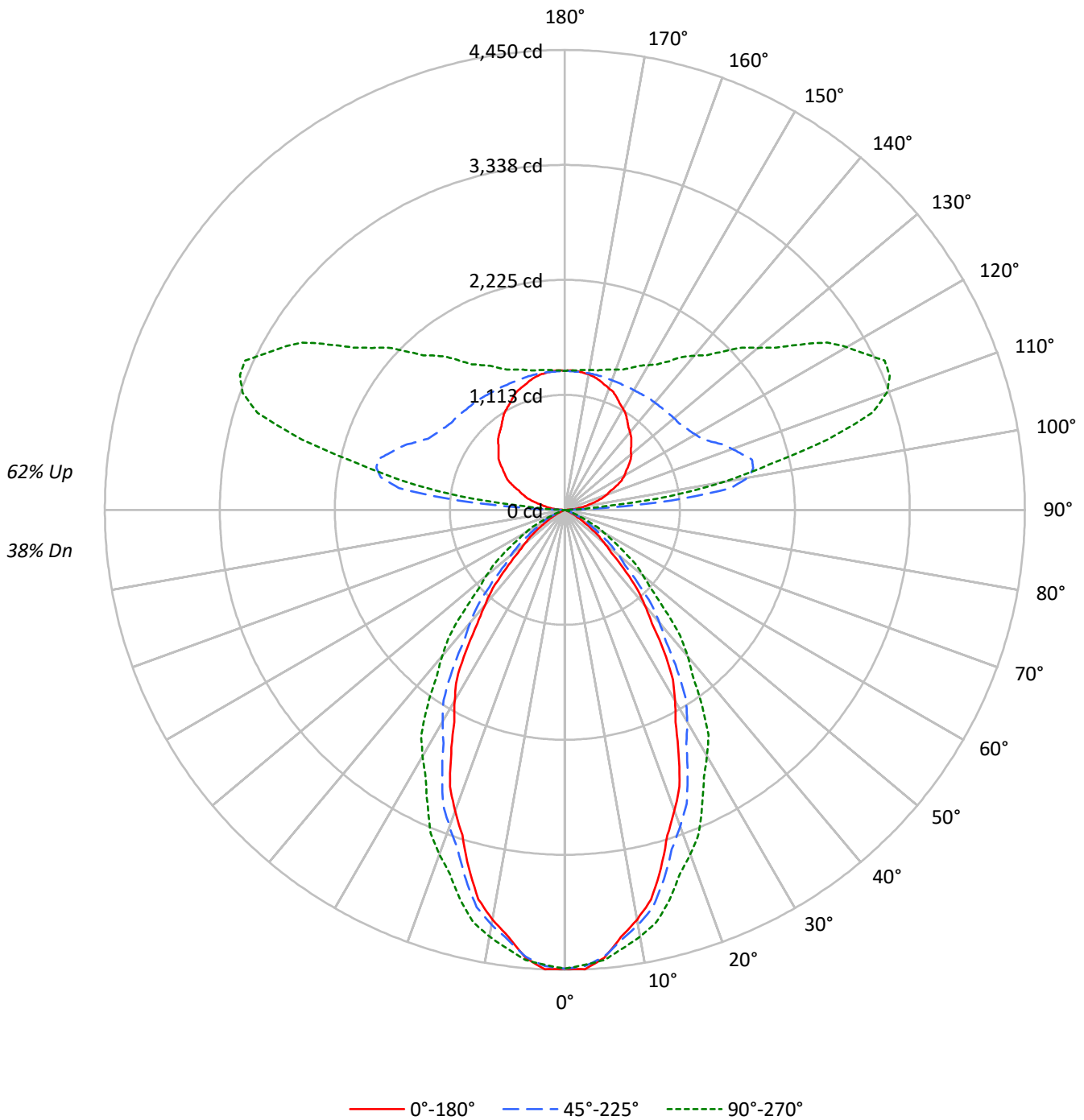
Lumens per Lamp: N/A
Luminaire Lumens: 13987.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 152.7
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	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°	20480	20480	20480
5°	20151	20101	20251
10°	18855	19106	19639
15°	17141	17684	18669
20°	15215	16006	17408
25°	13250	14300	15994
30°	11350	12597	14656
35°	9410	10693	13039
40°	7231	8549	11111
45°	5227	6474	8940
50°	3561	4825	7091
55°	2315	3490	5511
60°	1328	2457	3983
65°	351	1501	2016
70°	174	464	580
75°	77	37	0
80°	56	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	2.9
10°-20°	1036.1	7.4
20°-30°	1297.1	9.3
30°-40°	1198.1	8.6
40°-50°	805.1	5.8
50°-60°	415.8	3.0
60°-70°	130.2	0.9
70°-80°	8.2	0.1
80°-90°	3.3	0.0
90°-100°	629.6	4.5
100°-110°	1695.9	12.1
110°-120°	1779.8	12.7
120°-130°	1444.2	10.3
130°-140°	1132.7	8.1
140°-150°	869.6	6.2
150°-160°	625.2	4.5
160°-170°	382.0	2.7
170°-180°	128.8	0.9
0°-30°	2738.4	19.6
0°-40°	3936.6	28.1
0°-60°	5157.5	36.9
0°-90°	5299.3	37.9
90°-120°	4105.2	29.4
90°-150°	7551.7	54.0
90°-180°	8688.0	62.1
0°-180°	13987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4440	4440	4440	4440	4440	
5°	4352	4308	4341	4356	4373	403
15°	3589	3576	3703	3827	3909	1000
25°	2603	2624	2809	3002	3142	1193
35°	1671	1713	1899	2122	2315	1035
45°	801	850	992	1186	1370	629
55°	288	336	434	557	685	269
65°	32	62	138	166	185	54
75°	4	4	2	0	0	6
85°	0	0	0	0	0	0
90°	3	10	21	22	22	7
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	



TEST NUMBER: P518870

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4439.6	4439.6	4439.6	4439.6	4439.6
2.5°	4450.0	4407.9	4419.0	4418.8	4407.0
5°	4351.6	4307.5	4340.8	4356.3	4373.1
7.5°	4167.7	4133.3	4197.4	4245.4	4280.3
10°	4025.1	3995.7	4078.8	4144.3	4192.6
12.5°	3860.1	3837.5	3937.9	4027.8	4089.5
15°	3589.1	3576.5	3702.9	3827.2	3909.1
17.5°	3298.7	3298.3	3442.6	3596.9	3695.6
20°	3099.4	3105.7	3260.5	3430.6	3546.1
22.5°	2900.1	2914.8	3080.0	3257.5	3389.8
25°	2603.2	2624.2	2809.4	3001.6	3142.3
27.5°	2318.0	2348.6	2543.5	2743.3	2914.7
30°	2130.7	2166.4	2364.8	2575.0	2751.4
32.5°	1946.8	1989.2	2182.7	2405.0	2584.7
35°	1671.0	1713.0	1898.7	2122.2	2315.4
37.5°	1386.2	1427.4	1608.8	1828.7	2037.5
40°	1200.7	1246.9	1419.7	1632.9	1845.0
42.5°	1032.3	1078.5	1241.0	1450.5	1650.9
45°	801.2	849.5	992.3	1185.5	1370.3
47.5°	609.6	662.1	787.4	962.2	1130.6
50°	496.2	548.7	672.3	826.3	988.0
52.5°	405.1	455.9	567.5	712.6	860.9
55°	287.8	336.1	433.9	557.1	685.2
57.5°	198.9	240.5	328.2	431.0	531.4
60°	143.9	183.8	266.3	349.8	431.7
62.5°	95.8	132.3	213.1	277.0	332.1
65°	32.2	61.6	137.5	165.8	184.7
67.5°	16.3	19.7	72.2	76.2	82.5
70°	12.9	12.9	34.4	36.7	43.0
72.5°	9.5	9.5	13.7	17.6	18.9
75°	4.3	4.3	2.1	0.0	0.0
77.5°	2.1	2.1	1.7	0.0	0.0
80°	2.1	2.1	0.0	0.0	0.0
82.5°	0.4	0.4	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	2.0	4.1	4.5	4.5
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6

TEST NUMBER: P518870

CATALOG NUMBER: SQ4-BB-125U-125D-935-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)