

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521285

Luminaire Tested: **SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521285
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

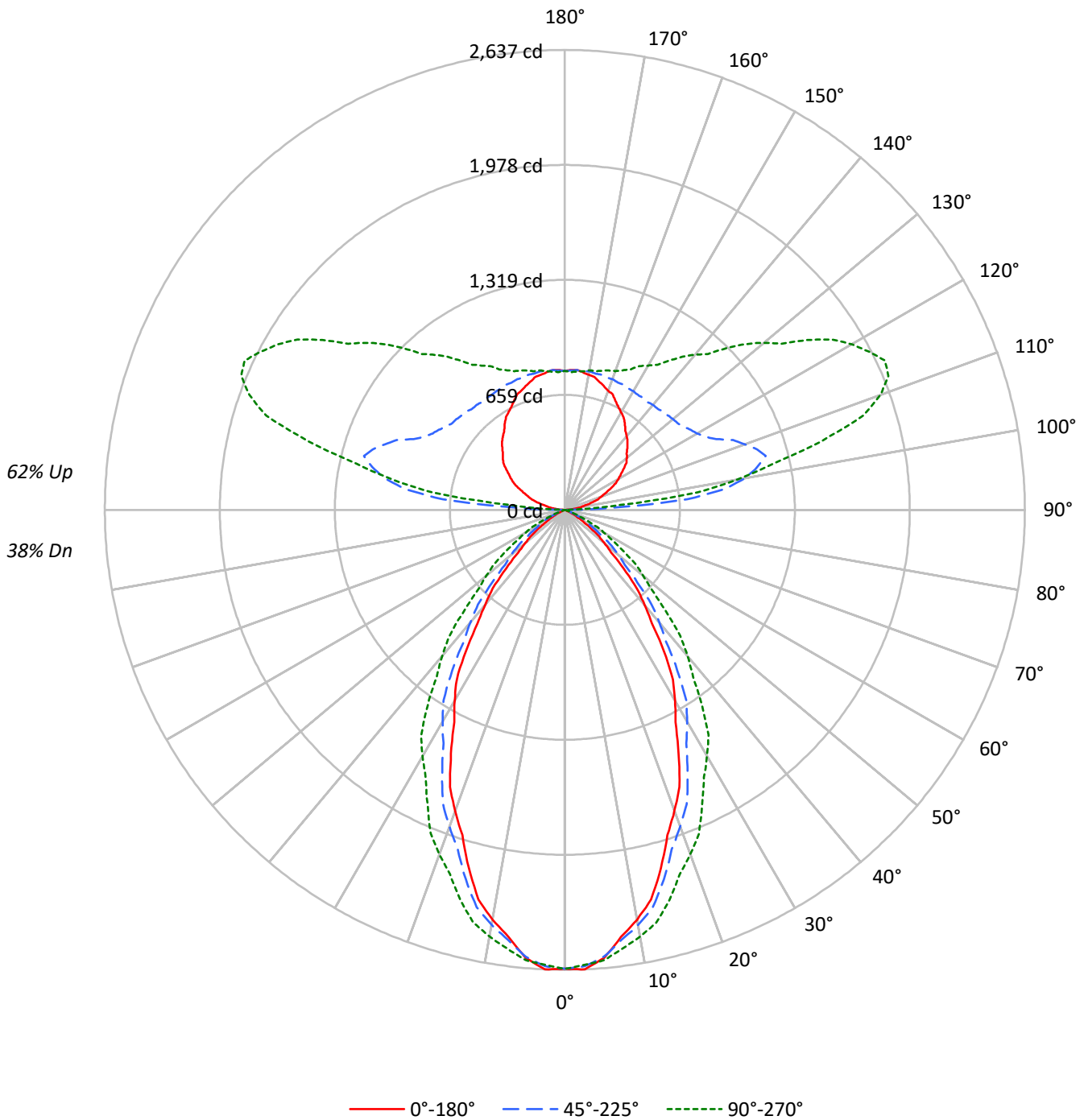
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8293.5 lumens
Efficiency: N/A
Efficacy: 85.6 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): 96.9
Input Voltage (V): 120
Input Current (A_{in}): 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	65	55	54	53	42	41	41	35				
2	89	83	77	73	81	75	71	67	62	59	56	50	48	46	38	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	30	26	23	26	22	20	21	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24275	24275	24275
5°	23884	23825	24002
10°	22348	22647	23278
15°	20316	20961	22128
20°	18034	18972	20634
25°	15706	16950	18958
30°	13452	14931	17372
35°	11154	12674	15455
40°	8570	10134	13169
45°	6195	7673	10596
50°	4220	5718	8404
55°	2744	4136	6532
60°	1574	2912	4722
65°	417	1779	2391
70°	205	550	688
75°	89	46	0
80°	69	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	2.9
10°-20°	614.1	7.4
20°-30°	768.7	9.3
30°-40°	710.1	8.6
40°-50°	477.1	5.8
50°-60°	246.4	3.0
60°-70°	77.2	0.9
70°-80°	4.9	0.1
80°-90°	0.1	0.0
90°-100°	410.4	4.9
100°-110°	991.9	12.0
110°-120°	1057.9	12.8
120°-130°	856.8	10.3
130°-140°	663.4	8.0
140°-150°	506.1	6.1
150°-160°	366.3	4.4
160°-170°	225.6	2.7
170°-180°	76.4	0.9
0°-30°	1622.9	19.6
0°-40°	2333.0	28.1
0°-60°	3056.5	36.9
0°-90°	3138.7	37.8
90°-120°	2460.2	29.7
90°-150°	4486.5	54.1
90°-180°	5155.0	62.2
0°-180°	8293.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2631	2631	2631	2631	2631	
5°	2579	2553	2572	2582	2592	239
15°	2127	2120	2194	2268	2317	592
25°	1543	1555	1665	1779	1862	707
35°	990	1015	1125	1258	1372	613
45°	475	503	588	703	812	373
55°	171	199	257	330	406	159
65°	19	36	82	98	110	32
75°	2	2	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	40	205	703	457	320	45
105°	158	274	1192	1542	1523	167
115°	290	371	958	1816	2025	287
125°	413	476	831	1444	1696	369
135°	508	567	798	1139	1310	392
145°	600	645	782	968	1044	375
155°	688	718	792	857	889	318
165°	760	772	803	815	826	215
175°	804	801	804	798	796	76
180°	796	796	796	796	796	

TEST NUMBER: P521285

CATALOG NUMBER: SQ4-BB-125U-125D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2631.1	2631.1	2631.1	2631.1	2631.1
2.5°	2637.2	2612.3	2618.9	2618.7	2611.8
5°	2578.9	2552.8	2572.5	2581.7	2591.6
7.5°	2469.9	2449.5	2487.5	2516.0	2536.6
10°	2385.4	2368.0	2417.3	2456.1	2484.7
12.5°	2287.7	2274.2	2333.7	2387.0	2423.6
15°	2127.0	2119.6	2194.5	2268.2	2316.7
17.5°	1954.9	1954.7	2040.2	2131.7	2190.2
20°	1836.8	1840.5	1932.3	2033.1	2101.6
22.5°	1718.7	1727.4	1825.3	1930.5	2008.9
25°	1542.8	1555.2	1665.0	1778.9	1862.3
27.5°	1373.7	1391.9	1507.4	1625.8	1727.3
30°	1262.7	1283.9	1401.5	1526.0	1630.6
32.5°	1153.8	1178.9	1293.5	1425.3	1531.8
35°	990.3	1015.2	1125.3	1257.7	1372.2
37.5°	821.5	845.9	953.4	1083.8	1207.5
40°	711.6	738.9	841.4	967.7	1093.4
42.5°	611.8	639.1	735.5	859.6	978.4
45°	474.8	503.4	588.1	702.6	812.1
47.5°	361.3	392.4	466.6	570.2	670.1
50°	294.0	325.2	398.4	489.7	585.5
52.5°	240.1	270.2	336.3	422.3	510.2
55°	170.6	199.2	257.1	330.1	406.1
57.5°	117.9	142.5	194.5	255.4	314.9
60°	85.3	108.9	157.8	207.3	255.9
62.5°	56.8	78.4	126.3	164.2	196.8
65°	19.1	36.5	81.5	98.3	109.5
67.5°	9.7	11.7	42.8	45.1	48.9
70°	7.6	7.6	20.4	21.7	25.5
72.5°	5.6	5.6	8.1	10.5	11.2
75°	2.5	2.5	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	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
92.5°	13.5	111.1	261.7	127.2	86.3
95°	40.5	205.3	703.1	457.2	320.4
97.5°	71.8	227.5	926.1	892.2	765.9
100°	96.1	241.2	1048.8	1107.2	1003.3
102.5°	119.0	253.6	1129.8	1286.2	1224.5
105°	158.5	273.9	1192.1	1542.4	1522.6
107.5°	197.3	297.9	1155.4	1748.0	1794.5
110°	224.3	318.2	1096.0	1836.6	1924.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.2	338.6	1043.4	1858.2	2007.6
115°	290.0	370.8	957.8	1815.7	2025.1
117.5°	328.5	404.6	907.5	1718.1	1963.4
120°	354.1	425.0	875.1	1641.5	1898.7
122.5°	381.1	446.7	854.9	1563.1	1816.4
125°	413.1	475.8	831.3	1444.1	1696.3
127.5°	444.8	503.8	814.8	1343.2	1564.8
130°	463.7	521.4	809.4	1273.0	1490.6
132.5°	481.2	541.6	801.3	1222.3	1407.0
135°	507.5	566.9	797.6	1138.7	1310.2
137.5°	532.5	592.2	785.8	1082.1	1211.4
140°	551.4	605.8	785.8	1041.4	1160.1
142.5°	570.3	624.7	779.0	1005.9	1106.1
145°	600.3	644.8	782.4	967.9	1043.8
147.5°	628.3	671.5	780.4	924.1	986.8
150°	645.8	683.7	785.8	904.9	954.4
152.5°	664.7	701.3	784.4	884.6	928.8
155°	688.0	717.6	792.5	857.3	888.6
157.5°	716.0	741.4	790.8	846.9	865.4
160°	726.8	748.2	797.6	833.3	846.5
162.5°	744.3	763.1	794.9	829.1	837.0
165°	760.5	772.0	802.6	814.7	826.2
167.5°	780.4	788.0	800.6	813.8	814.1
170°	785.8	790.7	806.0	804.5	812.7
172.5°	795.2	798.8	802.0	805.6	800.6
175°	804.3	801.0	804.3	797.5	795.9
177.5°	802.6	802.6	799.9	797.1	790.5
180°	795.9	795.9	795.9	795.9	795.9

(END OF REPORT)