

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

Brand: CORELITE

Report Number: P521256

Luminaire Tested: SQ4-BB-125U-075D-92765-1D-UNV-STD-W-4_6500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521256
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-075D-92765-1D-UNV-STD-W-4_6500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7958.6 lumens
Efficiency: N/A
Efficacy: 109.2 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

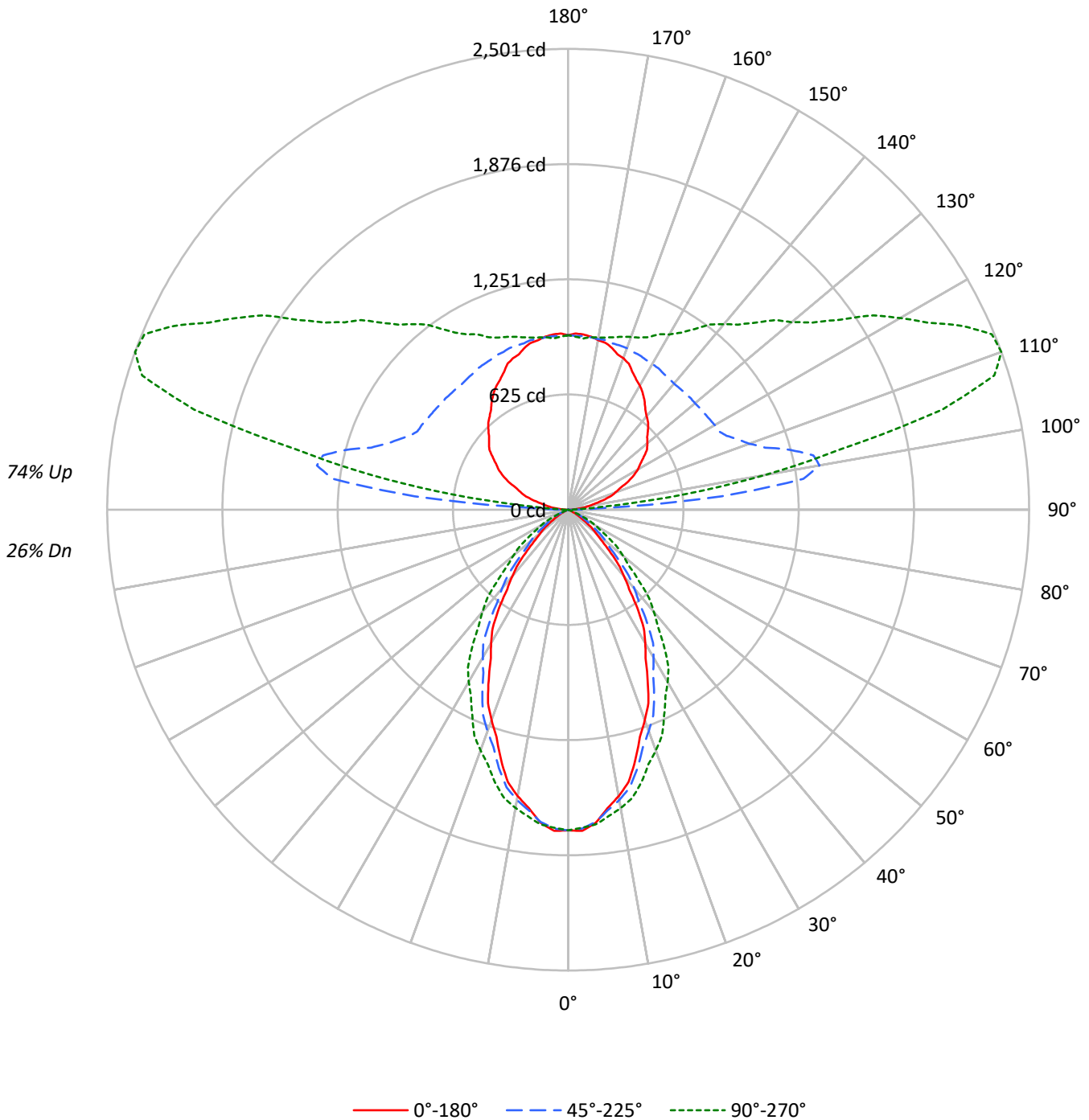
Input Watts (W): 72.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	101	101	101	101	90	90	90	90	70	70	70		51	51	51		34	34	34	26
1	93	90	86	83	83	80	77	75	63	61	59		46	45	44		32	31	31	24
2	86	79	74	69	76	71	67	63	56	53	50		42	40	39		29	28	27	22
3	79	70	64	59	70	63	58	54	50	47	44		38	36	34		27	25	24	19
4	73	63	56	51	65	57	51	46	45	41	38		34	32	30		24	23	22	18
5	67	56	49	44	60	51	45	40	41	37	33		31	29	26		22	21	20	16
6	62	51	44	38	55	46	40	35	37	33	29		29	26	24		21	19	18	15
7	57	46	39	34	51	42	36	31	34	29	26		26	23	21		19	18	16	13
8	53	42	35	30	48	38	32	28	31	27	24		24	21	19		18	16	15	12
9	50	38	32	27	45	35	29	25	29	24	21		22	20	17		17	15	14	11
10	46	35	29	24	42	32	27	23	26	22	19		21	18	16		16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16057	16057	16057
5°	15799	15759	15877
10°	14783	14979	15398
15°	13439	13865	14637
20°	11929	12549	13648
25°	10389	11211	12540
30°	8898	9876	11491
35°	7378	8383	10224
40°	5669	6704	8711
45°	4098	5076	7009
50°	2792	3782	5559
55°	1814	2736	4321
60°	1041	1926	3122
65°	275	1177	1581
70°	138	364	453
75°	61	29	0
80°	43	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7009 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	2.0
10°-20°	406.2	5.1
20°-30°	508.5	6.4
30°-40°	469.7	5.9
40°-50°	315.6	4.0
50°-60°	163.0	2.0
60°-70°	51.1	0.6
70°-80°	3.2	0.0
80°-90°	0.1	0.0
90°-100°	431.5	5.4
100°-110°	1227.8	15.4
110°-120°	1176.4	14.8
120°-130°	931.1	11.7
130°-140°	747.3	9.4
140°-150°	585.1	7.4
150°-160°	428.1	5.4
160°-170°	265.2	3.3
170°-180°	90.0	1.1
0°-30°	1073.5	13.5
0°-40°	1543.2	19.4
0°-60°	2021.8	25.4
0°-90°	2076.1	26.1
90°-120°	2835.8	35.6
90°-150°	5099.2	64.1
90°-180°	5882.0	73.9
0°-180°	7958.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1706	1689	1702	1708	1714	158
15°	1407	1402	1452	1500	1532	392
25°	1020	1029	1101	1177	1232	468
35°	655	672	744	832	908	406
45°	314	333	389	465	537	247
55°	113	132	170	218	269	105
65°	13	24	54	65	72	21
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1740.4	1740.4	1740.4	1740.4	1740.4
2.5°	1744.4	1728.0	1732.3	1732.2	1727.6
5°	1705.9	1688.6	1701.6	1707.7	1714.3
7.5°	1633.8	1620.3	1645.4	1664.2	1677.9
10°	1577.9	1566.4	1598.9	1624.6	1643.6
12.5°	1513.2	1504.3	1543.7	1578.9	1603.1
15°	1407.0	1402.0	1451.6	1500.3	1532.4
17.5°	1293.1	1293.0	1349.5	1410.0	1448.7
20°	1215.0	1217.5	1278.1	1344.8	1390.1
22.5°	1136.8	1142.6	1207.4	1277.0	1328.8
25°	1020.5	1028.7	1101.3	1176.7	1231.8
27.5°	908.7	920.7	997.1	1075.4	1142.6
30°	835.2	849.2	927.0	1009.4	1078.6
32.5°	763.2	779.8	855.6	942.8	1013.2
35°	655.1	671.5	744.3	831.9	907.7
37.5°	543.4	559.6	630.6	716.9	798.7
40°	470.7	488.8	556.6	640.1	723.3
42.5°	404.7	422.8	486.5	568.6	647.1
45°	314.1	333.0	389.0	464.7	537.2
47.5°	239.0	259.5	308.7	377.2	443.2
50°	194.5	215.1	263.5	323.9	387.3
52.5°	158.8	178.7	222.5	279.3	337.5
55°	112.8	131.8	170.1	218.4	268.6
57.5°	78.0	94.3	128.7	169.0	208.3
60°	56.4	72.1	104.4	137.1	169.2
62.5°	37.6	51.9	83.5	108.6	130.2
65°	12.6	24.2	53.9	65.0	72.4
67.5°	6.4	7.7	28.3	29.9	32.3
70°	5.1	5.1	13.5	14.4	16.8
72.5°	3.7	3.7	5.4	6.9	7.4
75°	1.7	1.7	0.8	0.0	0.0
77.5°	0.8	0.8	0.7	0.0	0.0
80°	0.8	0.8	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°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)