

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: P521713

Luminaire Tested: **SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521713
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-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

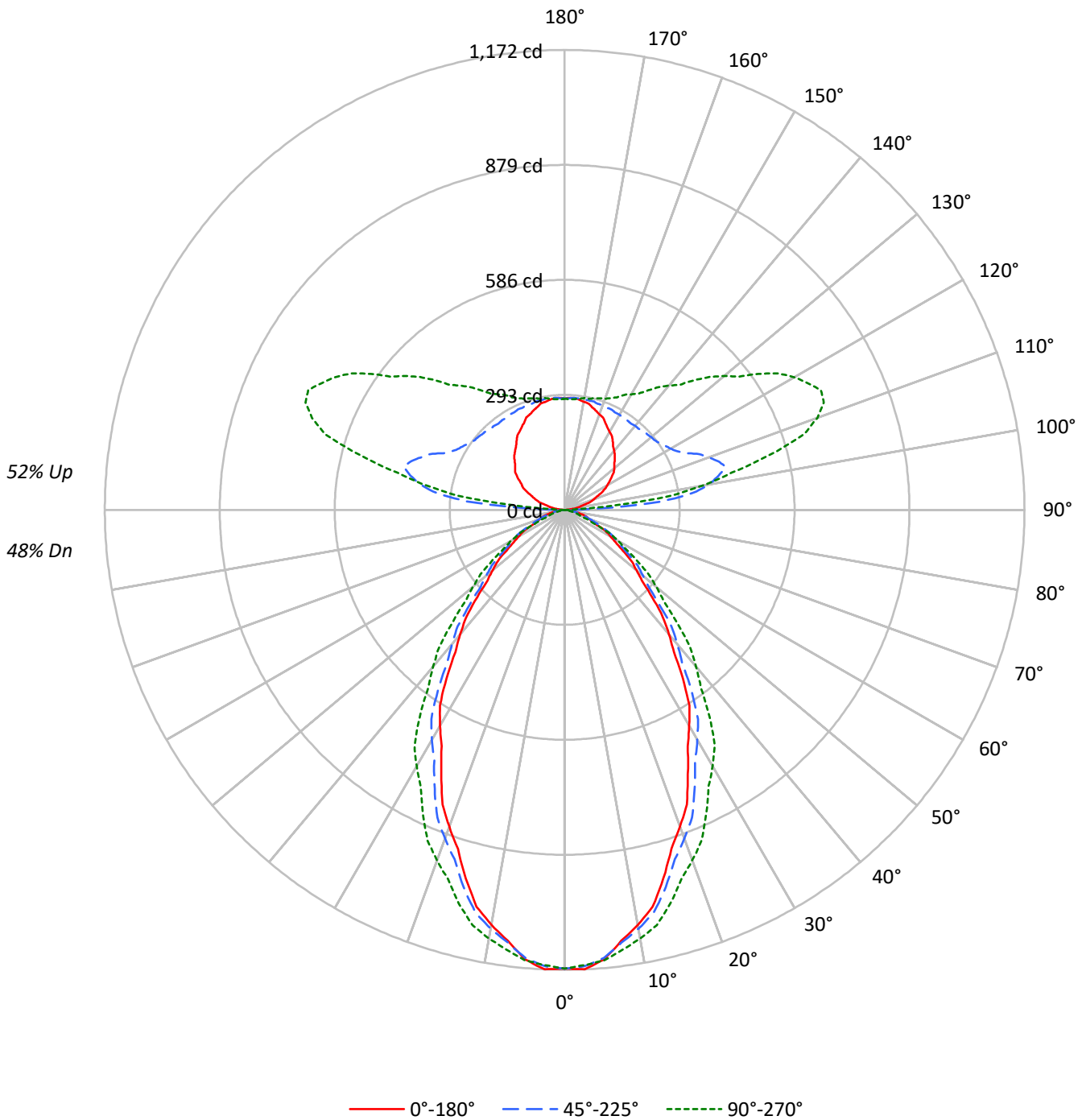
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3539.3 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.2
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: P521713
CATALOG NUMBER: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P521713

CATALOG NUMBER: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48		
1	98	95	91	88	91	87	84	82	74	72	70	61	60	59	50	49	48	43		
2	91	84	78	74	83	78	73	69	66	63	60	55	53	51	45	44	42	38		
3	83	75	68	63	77	69	64	59	59	55	52	50	47	44	41	39	37	33		
4	77	67	60	54	71	62	56	51	53	49	45	45	42	39	38	35	33	30		
5	71	60	53	47	65	56	50	45	48	43	40	41	38	35	34	32	30	27		
6	66	55	47	42	61	51	44	40	44	39	35	38	34	31	32	29	27	24		
7	61	50	42	37	57	47	40	35	40	35	32	35	31	28	29	27	24	22		
8	57	46	38	33	53	43	36	32	37	32	28	32	28	25	27	24	22	20		
9	53	42	35	30	49	39	33	29	34	29	26	30	26	23	25	23	20	18		
10	50	39	32	27	46	36	30	26	32	27	24	28	24	21	24	21	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10787	10787	10787
5°	10653	10615	10677
10°	10065	10155	10392
15°	9291	9507	9933
20°	8437	8754	9333
25°	7568	7980	8696
30°	6766	7209	8034
35°	5917	6345	7251
40°	4980	5375	6277
45°	4110	4465	5241
50°	3432	3741	4366
55°	2913	3211	3606
60°	2489	2783	2879
65°	1982	2340	1860
70°	1759	1826	1136
75°	1629	1483	695
80°	1498	1365	600
85°	1355	1249	487



TEST NUMBER: P521713

CATALOG NUMBER: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.0
10°-20°	278.9	7.9
20°-30°	361.3	10.2
30°-40°	353.8	10.0
40°-50°	270.8	7.7
50°-60°	180.5	5.1
60°-70°	98.5	2.8
70°-80°	41.0	1.2
80°-90°	11.6	0.3
90°-100°	146.1	4.1
100°-110°	353.2	10.0
110°-120°	376.7	10.6
120°-130°	305.1	8.6
130°-140°	236.2	6.7
140°-150°	180.2	5.1
150°-160°	130.4	3.7
160°-170°	80.3	2.3
170°-180°	27.2	0.8
0°-30°	747.5	21.1
0°-40°	1101.3	31.1
0°-60°	1552.6	43.9
0°-90°	1703.7	48.1
90°-120°	876.1	24.8
90°-150°	1597.6	45.1
90°-180°	1836.0	51.9
0°-180°	3539.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1169	1169	1169	1169	1169	
5°	1150	1139	1146	1149	1153	107
15°	973	969	995	1022	1040	272
25°	743	745	784	818	854	342
35°	525	528	563	601	644	327
45°	315	321	342	368	402	246
55°	181	189	200	207	224	164
65°	91	98	107	94	85	94
75°	46	46	42	28	20	49
85°	13	13	12	8	5	14
90°	0	0	0	0	0	1
95°	14	73	250	163	114	16
105°	56	98	424	549	542	60
115°	103	132	341	647	721	102
125°	147	169	296	514	604	131
135°	181	202	284	406	466	140
145°	214	230	279	345	372	134
155°	245	256	282	305	316	113
165°	271	275	286	290	294	76
175°	286	285	286	284	283	27
180°	283	283	283	283	283	

TEST NUMBER: P521713

CATALOG NUMBER: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.2	1169.2	1169.2	1169.2	1169.2
2.5°	1172.0	1161.6	1164.2	1164.2	1161.0
5°	1150.2	1138.7	1146.1	1148.7	1152.8
7.5°	1107.5	1098.8	1112.3	1122.4	1130.5
10°	1074.3	1066.7	1084.0	1098.6	1109.2
12.5°	1035.7	1029.4	1050.8	1070.4	1084.1
15°	972.7	969.2	995.3	1022.3	1039.9
17.5°	905.3	903.6	933.5	965.1	987.6
20°	859.3	858.8	891.6	924.5	950.6
22.5°	812.9	814.0	848.5	882.8	912.5
25°	743.4	745.4	783.9	818.1	854.2
27.5°	679.0	679.9	719.8	755.8	794.4
30°	635.1	637.6	676.7	714.0	754.1
32.5°	591.2	594.1	632.3	670.9	711.9
35°	525.3	527.8	563.3	601.2	643.8
37.5°	457.4	460.8	492.3	528.1	570.1
40°	413.5	418.5	446.3	480.1	521.2
42.5°	371.2	377.4	403.2	435.3	472.4
45°	315.0	321.0	342.2	368.1	401.7
47.5°	266.6	273.5	289.8	312.1	340.7
50°	239.1	245.6	260.6	277.1	304.2
52.5°	214.9	221.4	234.8	247.5	270.6
55°	181.1	188.6	199.6	207.1	224.2
57.5°	153.4	160.6	169.3	172.7	183.0
60°	134.9	143.0	150.8	150.4	156.0
62.5°	118.1	124.9	132.8	127.3	127.6
65°	90.8	98.3	107.2	93.7	85.2
67.5°	73.4	75.0	84.1	65.3	55.2
70°	65.2	65.2	67.7	50.6	42.1
72.5°	57.4	57.4	55.0	41.1	32.2
75°	45.7	45.7	41.6	28.5	19.5
77.5°	35.2	34.8	31.8	21.3	14.2
80°	28.2	28.2	25.7	16.8	11.3
82.5°	22.1	22.1	19.9	13.1	8.4
85°	12.8	12.8	11.8	7.6	4.6
87.5°	4.5	4.5	4.1	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.8	39.6	93.2	45.3	30.7
95°	14.4	73.1	250.4	162.8	114.1
97.5°	25.6	81.0	329.8	317.7	272.7
100°	34.2	85.9	373.5	394.3	357.3
102.5°	42.4	90.3	402.3	458.0	436.0
105°	56.4	97.5	424.5	549.3	542.2
107.5°	70.3	106.1	411.4	622.4	639.0
110°	79.9	113.3	390.3	654.0	685.1



TEST NUMBER: P521713

CATALOG NUMBER: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.5	120.6	371.6	661.7	714.9
115°	103.3	132.0	341.1	646.6	721.1
117.5°	117.0	144.1	323.2	611.8	699.2
120°	126.1	151.3	311.6	584.5	676.1
122.5°	135.7	159.1	304.4	556.6	646.8
125°	147.1	169.4	296.0	514.2	604.1
127.5°	158.4	179.4	290.1	478.3	557.2
130°	165.1	185.7	288.2	453.3	530.8
132.5°	171.4	192.9	285.3	435.3	501.0
135°	180.7	201.9	284.0	405.5	466.5
137.5°	189.6	210.9	279.8	385.3	431.4
140°	196.3	215.7	279.8	370.8	413.1
142.5°	203.1	222.4	277.4	358.2	393.9
145°	213.8	229.6	278.6	344.7	371.7
147.5°	223.7	239.1	277.9	329.1	351.4
150°	230.0	243.5	279.8	322.2	339.9
152.5°	236.7	249.7	279.3	315.0	330.7
155°	245.0	255.6	282.2	305.3	316.4
157.5°	255.0	264.0	281.6	301.6	308.2
160°	258.8	266.4	284.0	296.7	301.4
162.5°	265.0	271.7	283.1	295.2	298.1
165°	270.8	274.9	285.8	290.1	294.2
167.5°	277.9	280.6	285.1	289.8	289.9
170°	279.8	281.6	287.0	286.5	289.4
172.5°	283.2	284.5	285.6	286.9	285.1
175°	286.4	285.2	286.4	284.0	283.4
177.5°	285.8	285.8	284.9	283.8	281.5
180°	283.4	283.4	283.4	283.4	283.4

(END OF REPORT)