

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: P519369

Luminaire Tested: **SQ4-WB-100U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519369
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-100U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

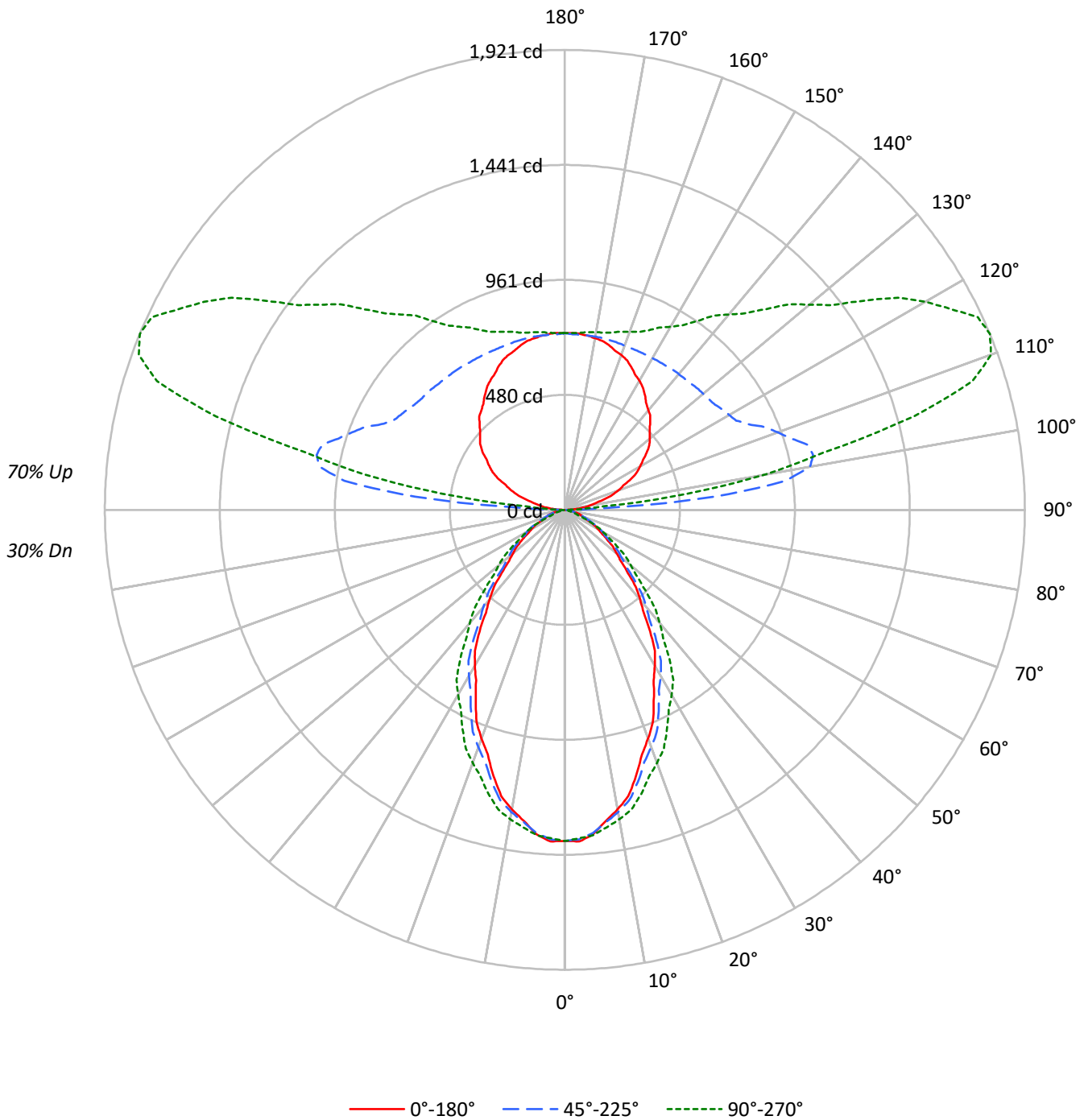
Lumens per Lamp: N/A
Luminaire Lumens: 6810.8 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26
2	86	79	74	69	77	72	67	63	57	54	51	43	41	40	31	30	29	23
3	79	70	64	58	71	64	58	53	51	47	44	39	36	34	28	27	25	20
4	72	63	55	50	65	57	51	46	46	41	38	35	32	30	25	24	22	18
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	62	50	43	38	55	46	39	35	37	33	29	29	26	23	21	19	18	15
7	57	46	38	33	51	42	35	31	34	29	26	27	23	21	20	18	16	13
8	53	42	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	23	19	17	17	15	14	11
10	46	35	28	24	42	32	26	22	26	22	19	21	18	16	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8507	8507	8507
5°	8400	8370	8419
10°	7936	8008	8194
15°	7326	7496	7832
20°	6653	6904	7360
25°	5968	6293	6857
30°	5335	5685	6335
35°	4666	5003	5719
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2532	2844
60°	1963	2195	2270
65°	1563	1845	1466
70°	1387	1440	896
75°	1283	1169	549
80°	1183	1073	475
85°	1073	988	388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	1.9
10°-20°	329.9	4.8
20°-30°	427.4	6.3
30°-40°	418.5	6.1
40°-50°	320.3	4.7
50°-60°	213.5	3.1
60°-70°	116.5	1.7
70°-80°	48.5	0.7
80°-90°	15.3	0.2
90°-100°	345.5	5.1
100°-110°	953.9	14.0
110°-120°	983.8	14.4
120°-130°	790.5	11.6
130°-140°	621.3	9.1
140°-150°	476.5	7.0
150°-160°	342.5	5.0
160°-170°	209.4	3.1
170°-180°	70.6	1.0
0°-30°	884.2	13.0
0°-40°	1302.7	19.1
0°-60°	1836.5	27.0
0°-90°	2016.8	29.6
90°-120°	2283.2	33.5
90°-150°	4171.5	61.2
90°-180°	4794.0	70.4
0°-180°	6810.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1360	1347	1356	1359	1364	127
15°	1150	1146	1177	1209	1230	321
25°	879	882	927	968	1010	404
35°	621	624	666	711	762	386
45°	373	380	405	435	475	291
55°	214	223	236	245	265	194
65°	107	116	127	111	101	112
75°	54	54	49	34	23	58
85°	15	15	14	9	6	17
90°	2	5	9	11	12	4
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

TEST NUMBER: P519369

CATALOG NUMBER: SQ4-WB-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1386.3	1374.0	1377.1	1377.0	1373.2
5°	1360.5	1346.9	1355.6	1358.8	1363.5
7.5°	1310.0	1299.7	1315.7	1327.6	1337.2
10°	1270.7	1261.8	1282.2	1299.5	1312.0
12.5°	1225.1	1217.6	1242.9	1266.1	1282.3
15°	1150.5	1146.4	1177.2	1209.3	1230.0
17.5°	1070.8	1068.8	1104.2	1141.6	1168.1
20°	1016.4	1015.8	1054.7	1093.6	1124.4
22.5°	961.6	962.9	1003.7	1044.2	1079.3
25°	879.3	881.7	927.2	967.6	1010.4
27.5°	803.2	804.3	851.4	894.0	939.6
30°	751.2	754.2	800.4	844.6	892.0
32.5°	699.3	702.7	748.0	793.6	842.0
35°	621.4	624.4	666.3	711.1	761.6
37.5°	541.0	545.1	582.3	624.7	674.3
40°	489.1	495.0	527.9	567.9	616.5
42.5°	439.1	446.5	477.0	514.9	558.8
45°	372.6	379.7	404.8	435.4	475.1
47.5°	315.3	323.5	342.7	369.1	403.1
50°	282.8	290.5	308.3	327.8	359.8
52.5°	254.1	261.9	277.7	292.7	320.0
55°	214.2	223.1	236.1	245.0	265.2
57.5°	181.4	190.0	200.3	204.3	216.5
60°	159.6	169.1	178.4	177.9	184.5
62.5°	139.7	147.8	157.0	150.6	151.0
65°	107.4	116.3	126.8	110.8	100.7
67.5°	86.8	88.7	99.5	77.3	65.3
70°	77.1	77.1	80.1	59.8	49.8
72.5°	67.8	67.8	65.1	48.7	38.1
75°	54.0	54.0	49.2	33.7	23.1
77.5°	41.6	41.2	37.6	25.2	16.7
80°	33.4	33.4	30.3	19.9	13.4
82.5°	26.1	26.1	23.5	15.5	10.0
85°	15.2	15.2	14.0	9.0	5.5
87.5°	5.8	6.3	6.7	5.0	4.8
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6

TEST NUMBER: P519369

CATALOG NUMBER: SQ4-WB-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)