

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: P519568

Luminaire Tested: **SQ4-WB-150U-050D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519568
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

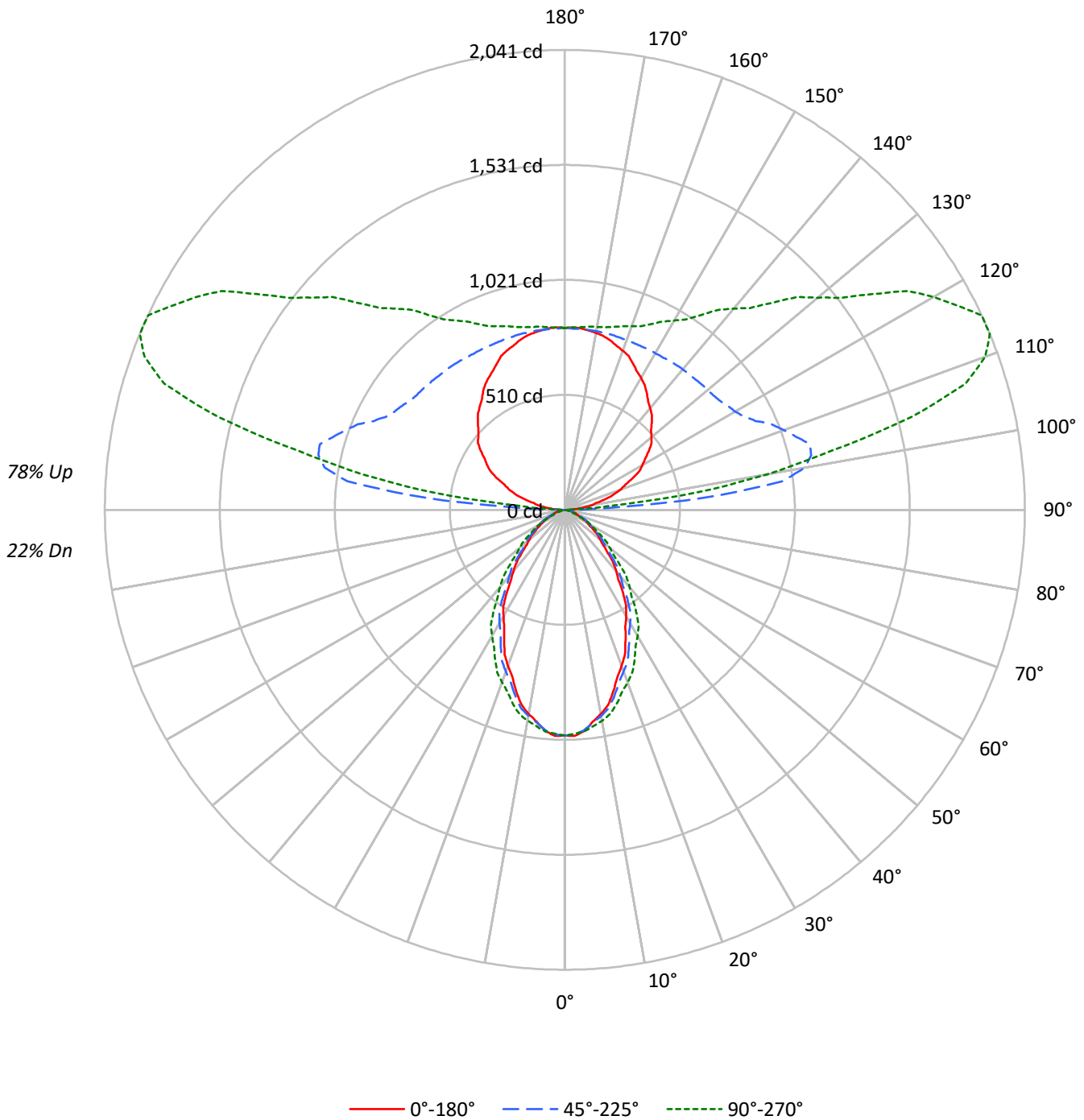
Lumens per Lamp: N/A
Luminaire Lumens: 6668.7 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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



TEST NUMBER: P519568
CATALOG NUMBER: SQ4-WB-150U-050D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519568

CATALOG NUMBER: SQ4-WB-150U-050D-940-1D-UNV-STD-W-4

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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9241	9241	9241
5°	9125	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7227	7499	7996
25°	6483	6836	7449
30°	5797	6176	6882
35°	5068	5436	6213
40°	4266	4606	5378
45°	3520	3824	4490
50°	2940	3205	3741
55°	2495	2751	3090
60°	2133	2384	2465
65°	1698	2006	1594
70°	1505	1565	971
75°	1394	1269	595
80°	1286	1169	515
85°	1164	1069	423



TEST NUMBER: P519568

CATALOG NUMBER: SQ4-WB-150U-050D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	1.4
10°-20°	239.0	3.6
20°-30°	309.5	4.6
30°-40°	303.1	4.5
40°-50°	232.0	3.5
50°-60°	154.6	2.3
60°-70°	84.4	1.3
70°-80°	35.1	0.5
80°-90°	11.6	0.2
90°-100°	375.4	5.6
100°-110°	1014.9	15.2
110°-120°	1067.1	16.0
120°-130°	866.7	13.0
130°-140°	679.9	10.2
140°-150°	521.8	7.8
150°-160°	375.3	5.6
160°-170°	229.3	3.4
170°-180°	77.3	1.2
0°-30°	640.3	9.6
0°-40°	943.4	14.1
0°-60°	1330.0	19.9
0°-90°	1461.2	21.9
90°-120°	2457.4	36.8
90°-150°	4525.8	67.9
90°-180°	5208.0	78.1
0°-180°	6668.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	985	975	982	984	988	92
15°	833	830	853	876	891	233
25°	637	638	672	701	732	293
35°	450	452	483	515	552	280
45°	270	275	293	315	344	210
55°	155	162	171	177	192	141
65°	78	84	92	80	73	81
75°	39	39	36	24	17	42
85°	11	11	10	6	4	12
90°	2	5	11	12	11	4
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

TEST NUMBER: P519568

CATALOG NUMBER: SQ4-WB-150U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	1004.1	995.1	997.4	997.3	994.6
5°	985.3	975.4	981.8	984.1	987.5
7.5°	948.8	941.3	952.9	961.5	968.5
10°	920.3	913.8	928.6	941.1	950.2
12.5°	887.2	881.8	900.2	917.0	928.7
15°	833.3	830.3	852.6	875.8	890.8
17.5°	775.5	774.1	799.7	826.8	846.0
20°	736.1	735.7	763.8	792.0	814.4
22.5°	696.4	697.4	726.9	756.2	781.7
25°	636.8	638.5	671.5	700.8	731.7
27.5°	581.7	582.5	616.6	647.5	680.5
30°	544.1	546.2	579.7	611.7	646.0
32.5°	506.5	509.0	541.7	574.8	609.8
35°	450.0	452.2	482.6	515.0	551.6
37.5°	391.8	394.8	421.7	452.4	488.4
40°	354.2	358.5	382.4	411.3	446.5
42.5°	318.0	323.3	345.4	372.9	404.7
45°	269.8	275.0	293.1	315.3	344.1
47.5°	228.4	234.3	248.2	267.3	291.9
50°	204.8	210.4	223.3	237.4	260.6
52.5°	184.1	189.6	201.1	212.0	231.8
55°	155.1	161.6	171.0	177.4	192.1
57.5°	131.4	137.6	145.0	148.0	156.8
60°	115.6	122.5	129.2	128.9	133.6
62.5°	101.2	107.0	113.7	109.1	109.3
65°	77.8	84.2	91.9	80.3	73.0
67.5°	62.8	64.2	72.1	56.0	47.3
70°	55.8	55.8	58.0	43.3	36.0
72.5°	49.1	49.1	47.1	35.2	27.6
75°	39.1	39.1	35.6	24.4	16.7
77.5°	30.1	29.8	27.2	18.2	12.1
80°	24.2	24.2	22.0	14.4	9.7
82.5°	18.9	18.9	17.1	11.2	7.2
85°	11.0	11.0	10.1	6.5	4.0
87.5°	4.2	4.9	5.8	4.5	4.0
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



TEST NUMBER: P519568

CATALOG NUMBER: SQ4-WB-150U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)