

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: P519465

Luminaire Tested: **SQ4-WB-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519465
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

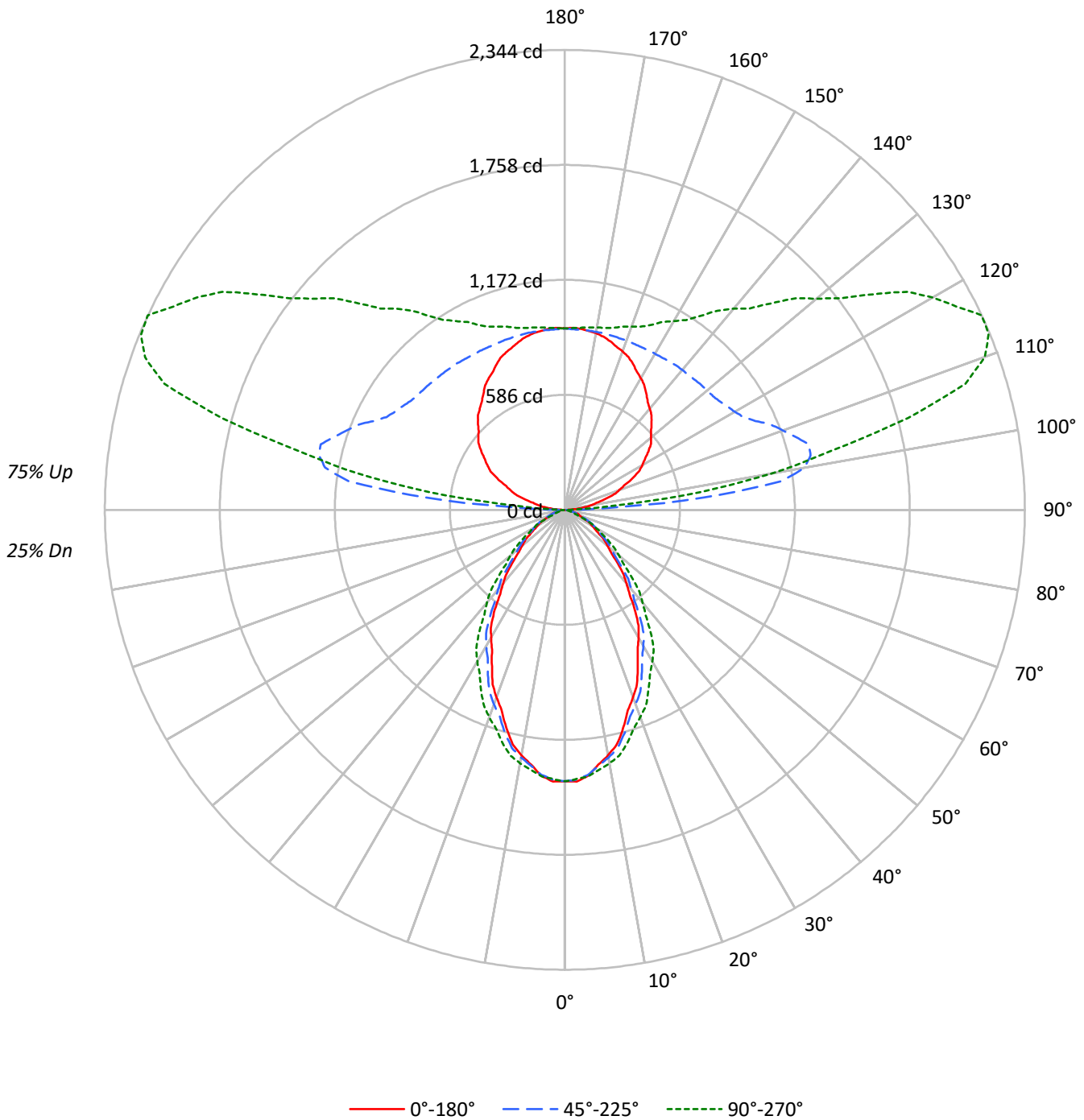
Lumens per Lamp: N/A
Luminaire Lumens: 7984.7 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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



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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	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

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	1.6
10°-20°	329.9	4.1
20°-30°	427.4	5.4
30°-40°	418.5	5.2
40°-50°	320.3	4.0
50°-60°	213.5	2.7
60°-70°	116.5	1.5
70°-80°	48.5	0.6
80°-90°	15.9	0.2
90°-100°	432.4	5.4
100°-110°	1164.8	14.6
110°-120°	1222.5	15.3
120°-130°	992.0	12.4
130°-140°	778.0	9.7
140°-150°	597.3	7.5
150°-160°	429.5	5.4
160°-170°	262.4	3.3
170°-180°	88.5	1.1
0°-30°	884.2	11.1
0°-40°	1302.7	16.3
0°-60°	1836.5	23.0
0°-90°	2017.4	25.3
90°-120°	2819.7	35.3
90°-150°	5187.0	65.0
90°-180°	5967.0	74.7
0°-180°	7984.7	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	7	14	15	15	5
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	

TEST NUMBER: P519465

CATALOG NUMBER: SQ4-WB-125U-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	6.7	7.7	6.0	5.5
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



TEST NUMBER: P519465

CATALOG NUMBER: SQ4-WB-125U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)