

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: P522011

Luminaire Tested: **SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522011
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-125U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

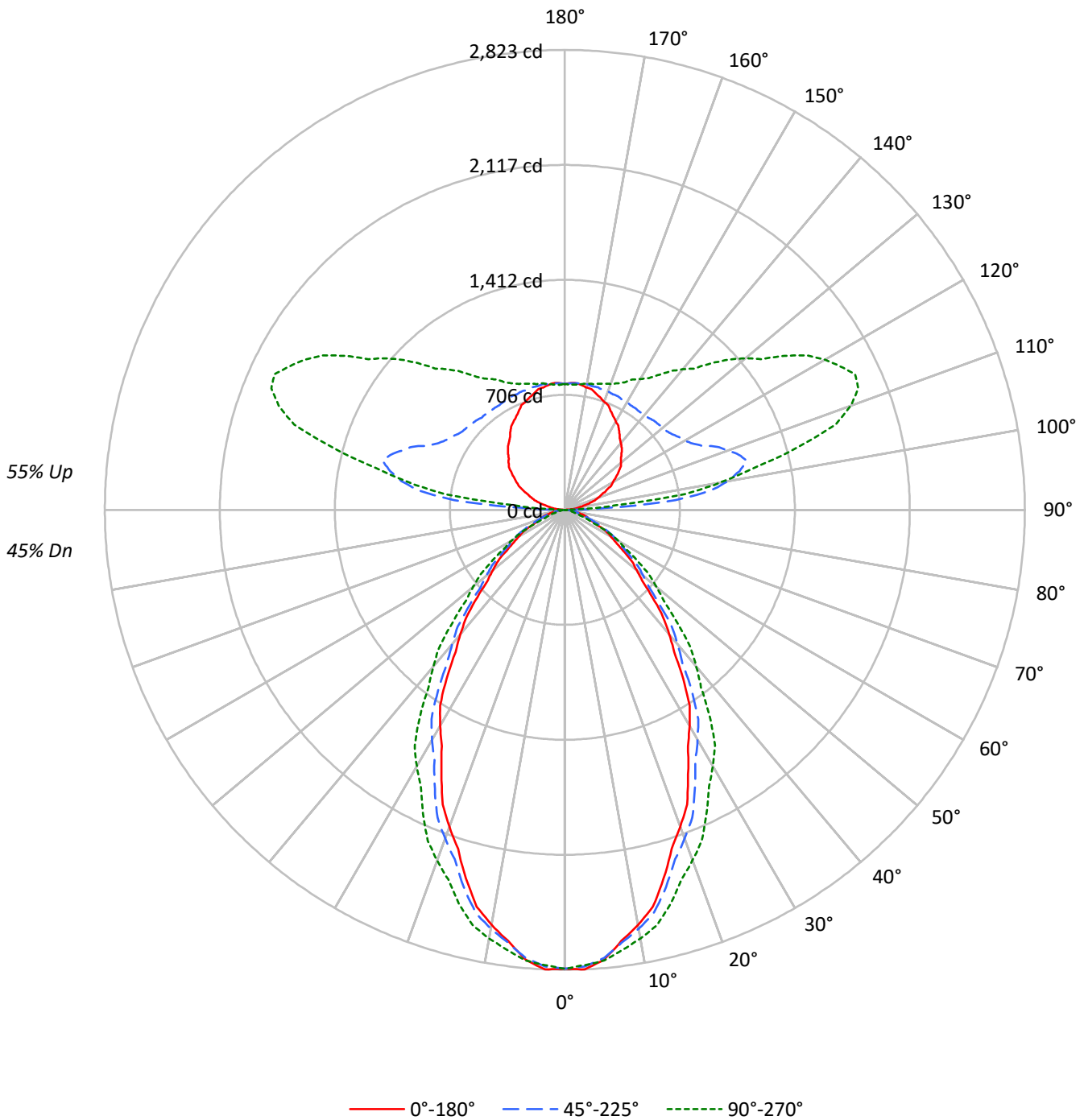
Lumens per Lamp: N/A
Luminaire Lumens: 9108.8 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 96.8
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: P522011

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)

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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45				
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40				
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35				
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31				
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28				
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25				
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	22				
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20				
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19				
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17				
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25986	25986	25986
5°	25662	25570	25718
10°	24244	24464	25032
15°	22381	22900	23927
20°	20324	21089	22484
25°	18229	19224	20947
30°	16300	17366	19354
35°	14253	15284	17469
40°	11997	12950	15122
45°	9901	10755	12626
50°	8266	9011	10520
55°	7018	7732	8688
60°	5997	6704	6933
65°	4774	5639	4478
70°	4235	4400	2733
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	2.8
10°-20°	671.9	7.4
20°-30°	870.4	9.6
30°-40°	852.3	9.4
40°-50°	652.4	7.2
50°-60°	434.7	4.8
60°-70°	237.2	2.6
70°-80°	98.9	1.1
80°-90°	28.0	0.3
90°-100°	398.5	4.4
100°-110°	963.0	10.6
110°-120°	1027.1	11.3
120°-130°	831.9	9.1
130°-140°	644.1	7.1
140°-150°	491.3	5.4
150°-160°	355.7	3.9
160°-170°	219.1	2.4
170°-180°	74.2	0.8
0°-30°	1800.7	19.8
0°-40°	2653.0	29.1
0°-60°	3740.1	41.1
0°-90°	4104.1	45.1
90°-120°	2388.6	26.2
90°-150°	4355.8	47.8
90°-180°	5005.0	54.9
0°-180°	9108.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2771	2743	2761	2767	2777	258
15°	2343	2335	2398	2463	2505	654
25°	1791	1796	1888	1971	2058	824
35°	1266	1272	1357	1448	1551	787
45°	759	773	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	0	0	0	0	0	3
95°	39	199	683	444	311	44
105°	154	266	1157	1498	1478	163
115°	282	360	930	1763	1966	278
125°	401	462	807	1402	1647	358
135°	493	550	774	1106	1272	380
145°	583	626	760	940	1013	364
155°	668	697	769	832	863	308
165°	738	750	779	791	802	208
175°	781	778	781	774	773	74
180°	773	773	773	773	773	

TEST NUMBER: P522011

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2816.5	2816.5	2816.5	2816.5	2816.5
2.5°	2823.4	2798.3	2804.6	2804.4	2796.7
5°	2770.8	2743.0	2760.9	2767.3	2776.9
7.5°	2667.9	2646.9	2679.5	2703.7	2723.3
10°	2587.8	2569.7	2611.3	2646.5	2671.9
12.5°	2494.9	2479.7	2531.2	2578.5	2611.6
15°	2343.2	2334.7	2397.5	2462.8	2505.0
17.5°	2180.8	2176.7	2248.7	2324.9	2379.0
20°	2070.0	2068.8	2147.9	2227.2	2290.0
22.5°	1958.3	1961.0	2044.1	2126.5	2198.1
25°	1790.7	1795.6	1888.4	1970.7	2057.7
27.5°	1635.8	1637.9	1733.9	1820.8	1913.6
30°	1530.0	1536.0	1630.1	1720.0	1816.7
32.5°	1424.2	1431.2	1523.3	1616.2	1714.9
35°	1265.5	1271.5	1357.0	1448.3	1551.0
37.5°	1101.9	1110.1	1185.9	1272.2	1373.3
40°	996.1	1008.2	1075.2	1156.5	1255.6
42.5°	894.3	909.2	971.4	1048.5	1138.0
45°	758.8	773.3	824.3	886.7	967.7
47.5°	642.1	658.8	698.0	751.7	820.8
50°	575.9	591.6	627.8	667.6	732.9
52.5°	517.6	533.3	565.5	596.2	651.8
55°	436.3	454.4	480.7	499.0	540.1
57.5°	369.5	386.9	407.8	416.1	440.9
60°	325.0	344.4	363.3	362.4	375.7
62.5°	284.5	300.9	319.8	306.8	307.5
65°	218.7	236.9	258.3	225.7	205.1
67.5°	176.7	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.1	121.9	101.3
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.1	53.1	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	10.9	10.9	9.9	5.9	4.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	107.9	254.1	123.5	83.8
95°	39.3	199.4	682.7	443.9	311.0
97.5°	69.7	220.8	899.1	866.2	743.6
100°	93.3	234.2	1018.3	1074.9	974.1
102.5°	115.6	246.2	1096.9	1248.7	1188.9
105°	153.9	265.9	1157.4	1497.5	1478.3
107.5°	191.5	289.2	1121.7	1697.1	1742.2
110°	217.7	309.0	1064.1	1783.1	1867.9

TEST NUMBER: P522011

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.9	328.8	1013.0	1804.1	1949.1
115°	281.6	360.0	929.9	1762.9	1966.2
117.5°	318.9	392.9	881.1	1668.1	1906.2
120°	343.8	412.6	849.7	1593.7	1843.4
122.5°	370.0	433.7	830.0	1517.6	1763.5
125°	401.1	461.9	807.1	1402.0	1646.9
127.5°	431.9	489.2	791.0	1304.1	1519.2
130°	450.2	506.2	785.8	1235.9	1447.2
132.5°	467.2	525.8	777.9	1186.7	1366.0
135°	492.8	550.4	774.3	1105.6	1272.0
137.5°	517.0	574.9	762.9	1050.6	1176.1
140°	535.3	588.2	762.9	1011.1	1126.3
142.5°	553.7	606.5	756.3	976.6	1073.9
145°	582.8	626.0	759.6	939.7	1013.4
147.5°	610.0	651.9	757.6	897.2	958.0
150°	627.0	663.8	762.9	878.6	926.6
152.5°	645.3	680.9	761.6	858.8	901.7
155°	667.9	696.7	769.4	832.3	862.8
157.5°	695.1	719.8	767.8	822.2	840.2
160°	705.6	726.4	774.3	809.0	821.8
162.5°	722.6	740.9	771.7	805.0	812.7
165°	738.3	749.5	779.3	791.0	802.2
167.5°	757.6	765.0	777.3	790.1	790.4
170°	762.9	767.7	782.5	781.1	789.1
172.5°	772.1	775.6	778.6	782.1	777.3
175°	780.9	777.7	780.9	774.3	772.7
177.5°	779.3	779.3	776.6	773.9	767.5
180°	772.7	772.7	772.7	772.7	772.7

(END OF REPORT)