

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: P522015

Luminaire Tested: **SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522015  
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 (5000K)  
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 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

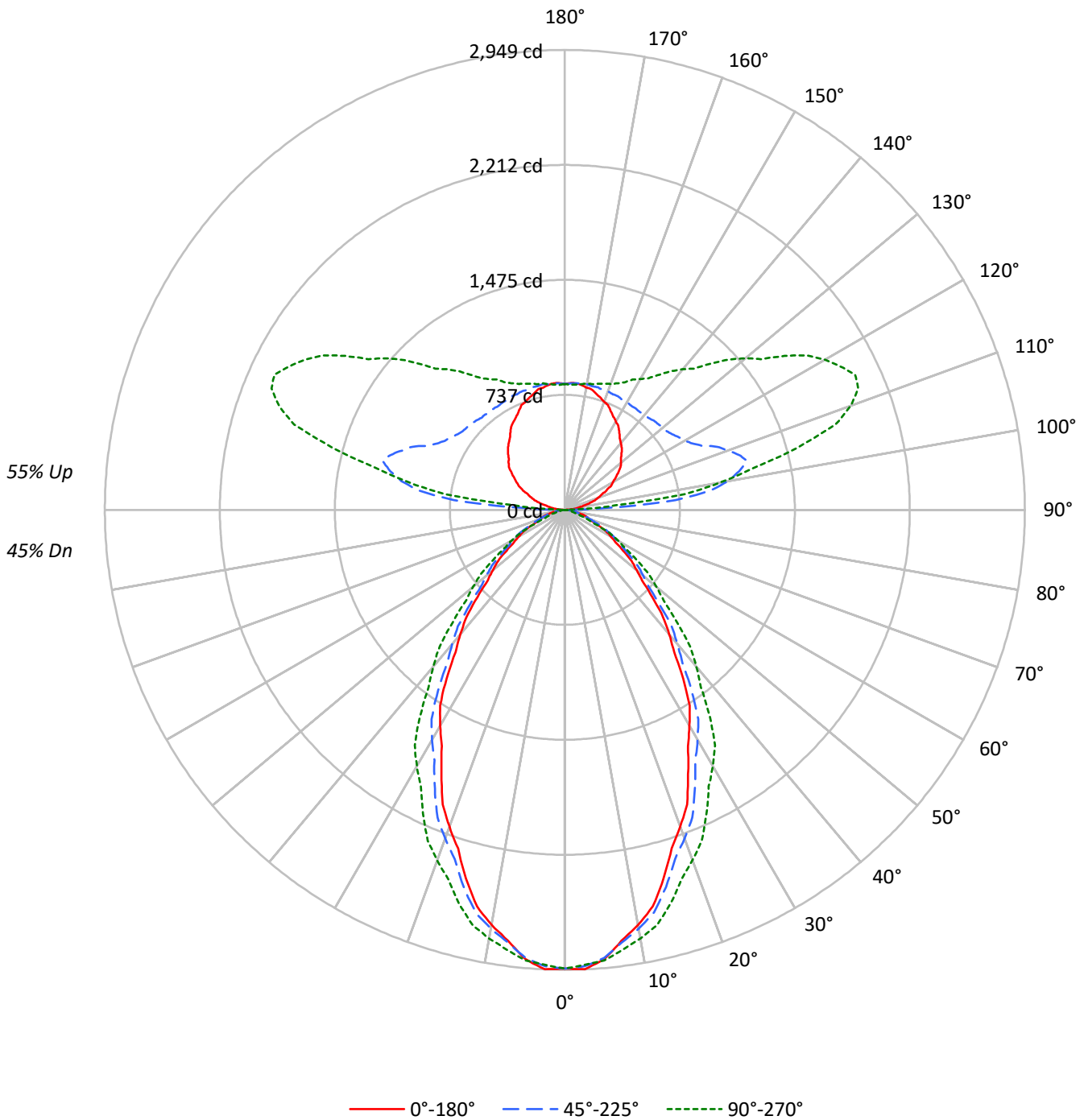
Lumens per Lamp: N/A  
Luminaire Lumens: 9512.8 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 96.7  
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

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### Luminous Intensity Polar Plot





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**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	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°	27138	27138	27138
5°	26799	26704	26859
10°	25319	25549	26142
15°	23374	23915	24988
20°	21225	22023	23481
25°	19038	20076	21876
30°	17022	18137	20212
35°	14885	15961	18244
40°	12529	13524	15793
45°	10340	11233	13186
50°	8632	9410	10986
55°	7329	8076	9072
60°	6263	7001	7241
65°	4986	5888	4676
70°	4421	4597	2854
75°	4096	3725	1747
80°	3772	3427	1509
85°	3419	3144	1228



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.8	2.8
10°-20°	701.7	7.4
20°-30°	909.0	9.6
30°-40°	890.1	9.4
40°-50°	681.3	7.2
50°-60°	454.0	4.8
60°-70°	247.7	2.6
70°-80°	103.2	1.1
80°-90°	29.2	0.3
90°-100°	416.1	4.4
100°-110°	1005.7	10.6
110°-120°	1072.6	11.3
120°-130°	868.8	9.1
130°-140°	672.6	7.1
140°-150°	513.1	5.4
150°-160°	371.4	3.9
160°-170°	228.8	2.4
170°-180°	77.5	0.8
0°-30°	1880.5	19.8
0°-40°	2770.6	29.1
0°-60°	3905.9	41.1
0°-90°	4286.1	45.1
90°-120°	2494.5	26.2
90°-150°	4548.9	47.8
90°-180°	5227.0	54.9
0°-180°	9512.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2894	2865	2883	2890	2900	269
15°	2447	2438	2504	2572	2616	683
25°	1870	1875	1972	2058	2149	860
35°	1322	1328	1417	1512	1620	822
45°	792	808	861	926	1011	618
55°	456	474	502	521	564	413
65°	228	247	270	236	214	237
75°	115	115	104	72	49	123
85°	32	32	30	19	12	35
90°	0	0	0	0	0	3
95°	41	208	713	464	325	46
105°	161	278	1209	1564	1544	170
115°	294	376	971	1841	2053	291
125°	419	482	843	1464	1720	374
135°	515	575	809	1155	1328	397
145°	609	654	793	981	1058	380
155°	698	728	804	869	901	322
165°	771	783	814	826	838	218
175°	816	812	816	809	807	77
180°	807	807	807	807	807	



TEST NUMBER: P522015

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2941.4	2941.4	2941.4	2941.4	2941.4
2.5°	2948.6	2922.4	2929.0	2928.8	2920.7
5°	2893.6	2864.6	2883.3	2890.0	2900.1
7.5°	2786.2	2764.3	2798.4	2823.6	2844.1
10°	2702.6	2683.7	2727.1	2763.9	2790.4
12.5°	2605.5	2589.6	2643.5	2692.8	2727.4
15°	2447.1	2438.2	2503.8	2572.0	2616.1
17.5°	2277.5	2273.2	2348.5	2428.0	2484.5
20°	2161.8	2160.6	2243.1	2325.9	2391.6
22.5°	2045.2	2047.9	2134.7	2220.8	2295.5
25°	1870.1	1875.2	1972.1	2058.1	2148.9
27.5°	1708.3	1710.6	1810.8	1901.5	1998.4
30°	1597.8	1604.1	1702.4	1796.3	1897.2
32.5°	1487.3	1494.7	1590.8	1687.9	1790.9
35°	1321.6	1327.9	1417.1	1512.5	1619.8
37.5°	1150.7	1159.3	1238.5	1328.7	1434.2
40°	1040.3	1052.9	1122.9	1207.8	1311.3
42.5°	933.9	949.6	1014.4	1095.0	1188.4
45°	792.5	807.6	860.9	926.0	1010.6
47.5°	670.6	688.0	729.0	785.1	857.2
50°	601.4	617.8	655.6	697.2	765.4
52.5°	540.5	556.9	590.6	622.6	680.7
55°	455.6	474.5	502.1	521.1	564.0
57.5°	385.9	404.1	425.9	434.5	460.5
60°	339.4	359.6	379.4	378.5	392.4
62.5°	297.1	314.3	334.0	320.4	321.1
65°	228.4	247.4	269.7	235.7	214.2
67.5°	184.6	188.6	211.7	164.4	138.9
70°	163.9	163.9	170.4	127.3	105.8
72.5°	144.3	144.3	138.4	103.5	81.1
75°	114.9	114.9	104.5	71.8	49.0
77.5°	88.5	87.5	80.0	53.5	35.6
80°	71.0	71.0	64.5	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.4	11.4	10.3	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	112.6	265.3	129.0	87.5
95°	41.0	208.2	712.9	463.6	324.8
97.5°	72.8	230.6	939.0	904.6	776.5
100°	97.5	244.6	1063.4	1122.6	1017.3
102.5°	120.7	257.1	1145.5	1304.1	1241.6
105°	160.7	277.7	1208.8	1563.9	1543.9
107.5°	200.0	302.0	1171.5	1772.3	1819.5
110°	227.4	322.7	1111.3	1862.2	1950.8

TEST NUMBER: P522015

CATALOG NUMBER: SQ4-WB-125U-125D-93050-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	254.7	343.3	1058.0	1884.1	2035.6
115°	294.1	376.0	971.1	1841.0	2053.3
117.5°	333.0	410.3	920.2	1742.0	1990.8
120°	359.0	430.9	887.3	1664.3	1925.1
122.5°	386.4	452.9	866.8	1584.9	1841.7
125°	418.9	482.4	842.9	1464.2	1720.0
127.5°	451.0	510.9	826.1	1361.9	1586.6
130°	470.2	528.7	820.7	1290.7	1511.4
132.5°	487.9	549.1	812.4	1239.3	1426.6
135°	514.6	574.8	808.7	1154.6	1328.4
137.5°	539.9	600.4	796.7	1097.2	1228.2
140°	559.1	614.2	796.7	1055.9	1176.3
142.5°	578.2	633.4	789.9	1019.9	1121.6
145°	608.7	653.8	793.3	981.4	1058.3
147.5°	637.0	680.8	791.2	937.0	1000.5
150°	654.8	693.3	796.7	917.5	967.7
152.5°	674.0	711.1	795.4	896.9	941.7
155°	697.6	727.6	803.6	869.2	901.0
157.5°	725.9	751.7	801.8	858.7	877.4
160°	736.9	758.6	808.7	844.9	858.3
162.5°	754.7	773.7	806.0	840.7	848.7
165°	771.1	782.8	813.8	826.0	837.8
167.5°	791.2	798.9	811.8	825.1	825.4
170°	796.7	801.7	817.2	815.7	824.1
172.5°	806.3	810.0	813.1	816.8	811.8
175°	815.5	812.2	815.5	808.6	807.0
177.5°	813.8	813.8	811.1	808.2	801.5
180°	807.0	807.0	807.0	807.0	807.0

(END OF REPORT)