

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: P521976

Luminaire Tested: **SQ4-WB-125U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521976  
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-050D-93050-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

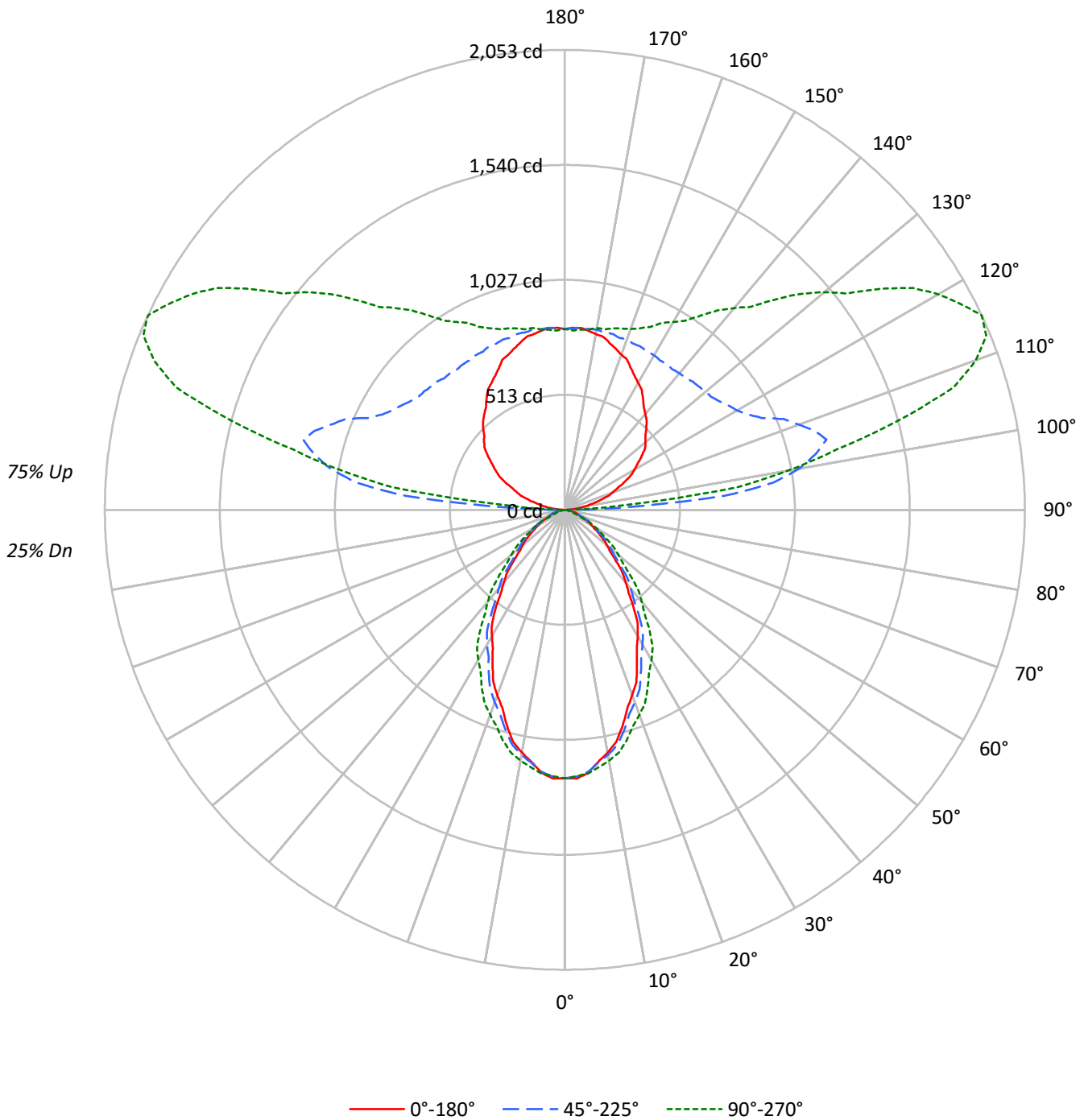
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6972.5 lumens  
Efficiency: N/A  
Efficacy: 112.3 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): 62.1  
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	69	69	69	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	61	55	52	49	40	39	37	27	26	25	20
3	78	69	63	57	69	62	56	52	49	45	42	36	34	32	25	23	22	17
4	71	62	54	49	64	55	49	44	44	39	36	33	30	28	22	21	20	15
5	66	55	48	42	58	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	35	31	28	27	24	22	19	17	16	12
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	29	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	40	31	25	21	25	21	18	19	16	14	14	12	11	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11054	11054	11054
5°	10916	10877	10941
10°	10313	10407	10648
15°	9520	9742	10178
20°	8646	8971	9564
25°	7754	8178	8911
30°	6933	7387	8233
35°	6063	6501	7431
40°	5103	5509	6433
45°	4212	4575	5370
50°	3517	3834	4474
55°	2985	3289	3695
60°	2552	2853	2949
65°	2030	2399	1906
70°	1802	1872	1163
75°	1668	1519	713
80°	1536	1397	616
85°	1387	1281	498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.9	1.6
10°-20°	285.8	4.1
20°-30°	370.2	5.3
30°-40°	362.6	5.2
40°-50°	277.5	4.0
50°-60°	184.9	2.7
60°-70°	100.9	1.4
70°-80°	42.1	0.6
80°-90°	11.9	0.2
90°-100°	416.1	6.0
100°-110°	1005.7	14.4
110°-120°	1072.6	15.4
120°-130°	868.8	12.5
130°-140°	672.6	9.6
140°-150°	513.1	7.4
150°-160°	371.4	5.3
160°-170°	228.8	3.3
170°-180°	77.5	1.1
0°-30°	766.0	11.0
0°-40°	1128.5	16.2
0°-60°	1591.0	22.8
0°-90°	1745.9	25.0
90°-120°	2494.5	35.8
90°-150°	4548.9	65.2
90°-180°	5227.0	75.0
0°-180°	6972.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1179	1167	1174	1177	1181	110
15°	997	993	1020	1048	1066	278
25°	762	764	803	838	875	350
35°	538	541	577	616	660	335
45°	323	329	351	377	412	252
55°	186	193	204	212	230	168
65°	93	101	110	96	87	97
75°	47	47	43	29	20	50
85°	13	13	12	8	5	14
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1198.1	1198.1	1198.1	1198.1	1198.1
2.5°	1201.0	1190.3	1193.0	1193.0	1189.7
5°	1178.6	1166.8	1174.4	1177.1	1181.3
7.5°	1134.9	1125.9	1139.8	1150.1	1158.4
10°	1100.8	1093.1	1110.8	1125.8	1136.6
12.5°	1061.3	1054.8	1076.7	1096.8	1110.9
15°	996.7	993.1	1019.9	1047.6	1065.6
17.5°	927.7	925.9	956.6	989.0	1012.0
20°	880.6	880.0	913.7	947.4	974.1
22.5°	833.0	834.2	869.5	904.6	935.0
25°	761.7	763.8	803.3	838.3	875.3
27.5°	695.8	696.7	737.6	774.5	814.0
30°	650.8	653.4	693.4	731.7	772.8
32.5°	605.8	608.8	648.0	687.5	729.5
35°	538.3	540.9	577.2	616.1	659.8
37.5°	468.7	472.2	504.5	541.2	584.2
40°	423.7	428.9	457.4	492.0	534.1
42.5°	380.4	386.8	413.2	446.0	484.1
45°	322.8	329.0	350.6	377.2	411.6
47.5°	273.2	280.2	296.9	319.8	349.2
50°	245.0	251.7	267.1	284.0	311.7
52.5°	220.2	226.8	240.6	253.6	277.3
55°	185.6	193.3	204.5	212.3	229.7
57.5°	157.2	164.6	173.5	177.0	187.6
60°	138.3	146.5	154.6	154.2	159.8
62.5°	121.0	128.0	136.1	130.5	130.8
65°	93.0	100.8	109.9	96.0	87.3
67.5°	75.2	76.8	86.2	66.9	56.6
70°	66.8	66.8	69.4	51.8	43.1
72.5°	58.8	58.8	56.4	42.2	33.0
75°	46.8	46.8	42.6	29.2	20.0
77.5°	36.1	35.7	32.6	21.8	14.5
80°	28.9	28.9	26.3	17.2	11.6
82.5°	22.6	22.6	20.4	13.5	8.6
85°	13.1	13.1	12.1	7.8	4.7
87.5°	4.6	4.6	4.2	2.5	2.1
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

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**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)