

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: P519472

Luminaire Tested: **SQ4-WB-125U-050D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519472  
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-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

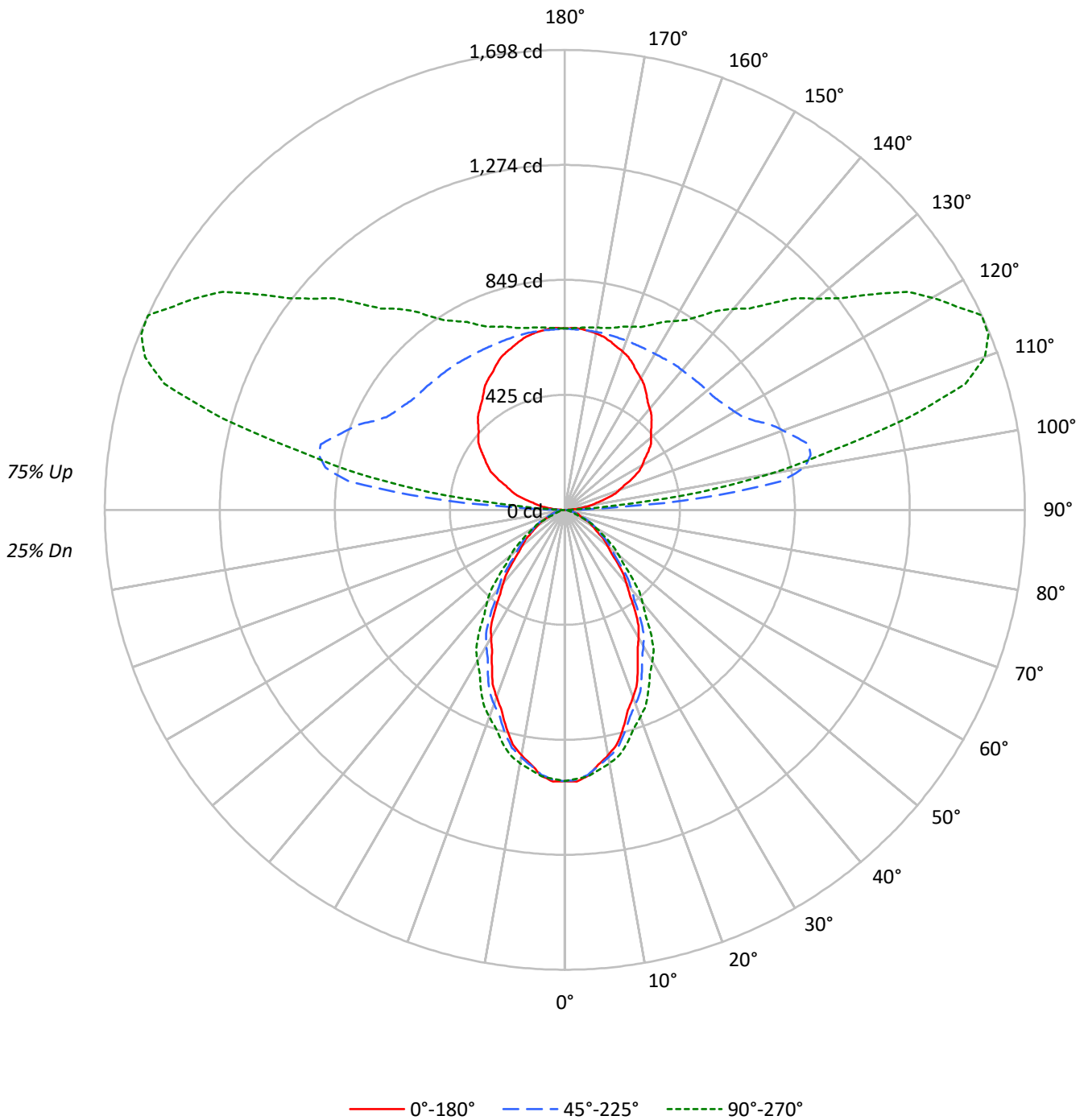
Lumens per Lamp: N/A  
Luminaire Lumens: 5782.9 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 47.9  
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°	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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	1.6
10°-20°	239.0	4.1
20°-30°	309.5	5.4
30°-40°	303.1	5.2
40°-50°	232.0	4.0
50°-60°	154.6	2.7
60°-70°	84.4	1.5
70°-80°	35.1	0.6
80°-90°	11.5	0.2
90°-100°	313.2	5.4
100°-110°	843.6	14.6
110°-120°	885.4	15.3
120°-130°	718.5	12.4
130°-140°	563.5	9.7
140°-150°	432.6	7.5
150°-160°	311.0	5.4
160°-170°	190.0	3.3
170°-180°	64.1	1.1
0°-30°	640.3	11.1
0°-40°	943.4	16.3
0°-60°	1330.0	23.0
0°-90°	1461.1	25.3
90°-120°	2042.2	35.3
90°-150°	3756.7	65.0
90°-180°	4322.0	74.7
0°-180°	5782.9	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	10	11	11	4
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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CATALOG NUMBER: SQ4-WB-125U-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	5.6	4.3	4.0
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4



TEST NUMBER: P519472

CATALOG NUMBER: SQ4-WB-125U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)