

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: P519506

Luminaire Tested: **SQ4-WB-125U-100D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519506  
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-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

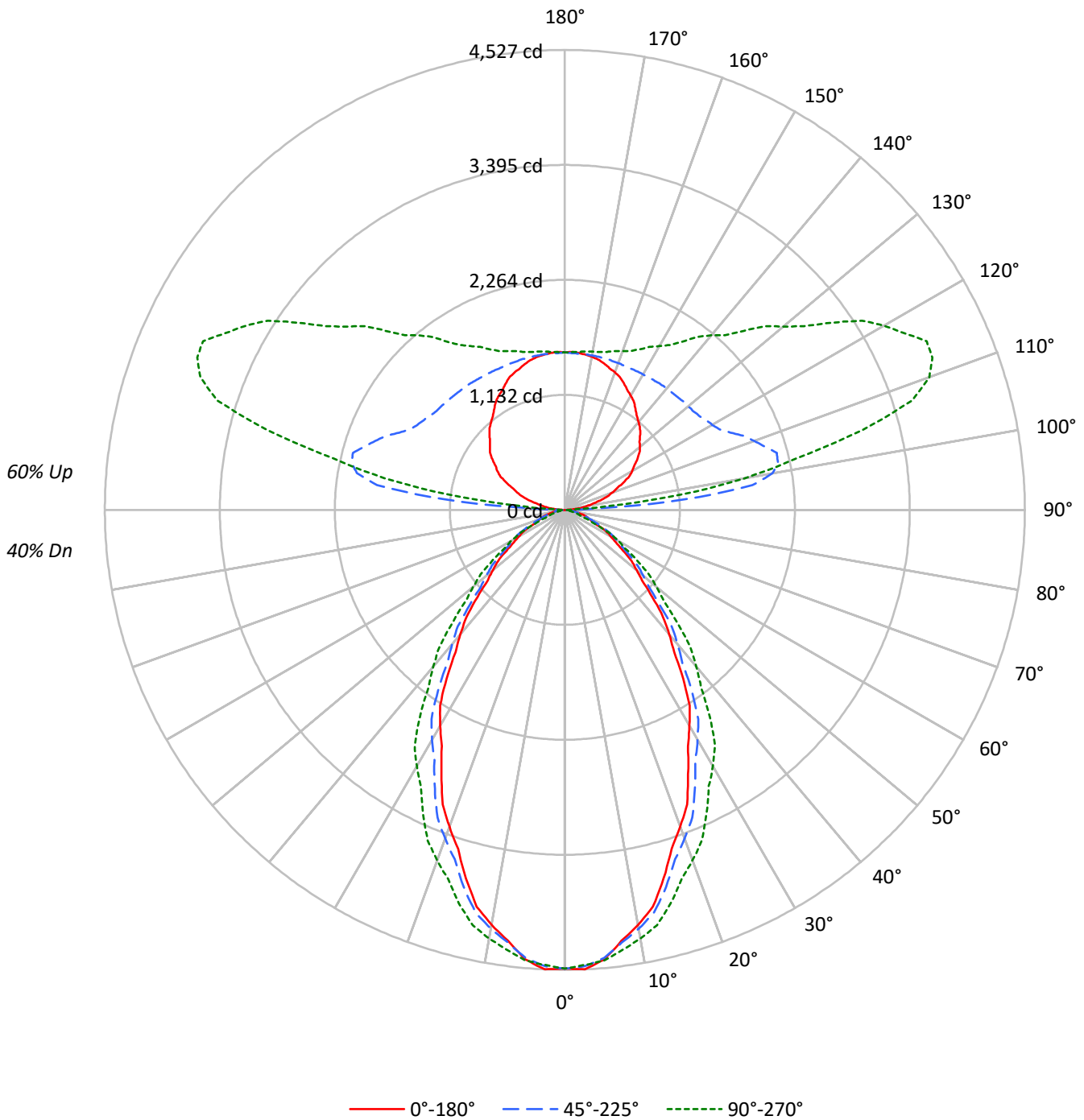
Lumens per Lamp: N/A  
Luminaire Lumens: 16583.1 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 133.3  
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

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

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19613	20068
15°	17943	18360	19183
20°	16294	16907	18026
25°	14615	15412	16794
30°	13068	13923	15517
35°	11428	12253	14005
40°	9618	10382	12124
45°	7938	8623	10122
50°	6627	7225	8433
55°	5626	6199	6965
60°	4809	5375	5558
65°	3828	4521	3590
70°	3395	3528	2192
75°	3144	2861	1342
80°	2896	2633	1158
85°	2620	2414	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.2	2.5
10°-20°	1077.4	6.5
20°-30°	1395.6	8.4
30°-40°	1366.6	8.2
40°-50°	1046.1	6.3
50°-60°	697.1	4.2
60°-70°	380.4	2.3
70°-80°	158.5	1.0
80°-90°	48.5	0.3
90°-100°	724.6	4.4
100°-110°	1951.8	11.8
110°-120°	2048.3	12.4
120°-130°	1662.1	10.0
130°-140°	1303.6	7.9
140°-150°	1000.8	6.0
150°-160°	719.6	4.3
160°-170°	439.6	2.7
170°-180°	148.3	0.9
0°-30°	2887.3	17.4
0°-40°	4253.9	25.7
0°-60°	5997.0	36.2
0°-90°	6584.4	39.7
90°-120°	4724.6	28.5
90°-150°	8691.2	52.4
90°-180°	9999.0	60.3
0°-180°	16583.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4516	4516	4516	4516	4516	
5°	4443	4398	4427	4437	4453	413
15°	3757	3744	3844	3949	4017	1049
25°	2871	2879	3028	3160	3299	1320
35°	2029	2039	2176	2322	2487	1262
45°	1217	1240	1322	1422	1552	949
55°	700	729	771	800	866	634
65°	351	380	414	362	329	365
75°	176	176	160	110	75	188
85°	50	50	46	30	18	54
90°	4	12	24	26	26	10
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4516.1	4516.1	4516.1	4516.1	4516.1
2.5°	4527.2	4486.9	4497.1	4496.8	4484.4
5°	4442.8	4398.2	4426.9	4437.2	4452.7
7.5°	4277.9	4244.2	4296.5	4335.3	4366.7
10°	4149.5	4120.4	4187.1	4243.6	4284.2
12.5°	4000.5	3976.1	4058.7	4134.5	4187.5
15°	3757.1	3743.6	3844.3	3948.9	4016.7
17.5°	3496.8	3490.2	3605.7	3727.8	3814.6
20°	3319.2	3317.3	3444.0	3571.2	3671.9
22.5°	3140.1	3144.3	3277.6	3409.8	3524.5
25°	2871.4	2879.1	3027.9	3159.9	3299.4
27.5°	2622.9	2626.4	2780.2	2919.5	3068.3
30°	2453.2	2462.9	2613.7	2758.0	2913.0
32.5°	2283.6	2294.8	2442.5	2591.6	2749.7
35°	2029.2	2038.9	2175.8	2322.2	2486.9
37.5°	1766.8	1780.0	1901.6	2040.0	2202.0
40°	1597.2	1616.6	1724.0	1854.4	2013.3
42.5°	1433.9	1457.9	1557.5	1681.3	1824.7
45°	1216.7	1240.0	1321.7	1421.8	1551.6
47.5°	1029.6	1056.4	1119.2	1205.4	1316.2
50°	923.4	948.6	1006.7	1070.5	1175.1
52.5°	829.9	855.1	906.8	956.0	1045.1
55°	699.5	728.6	770.8	800.1	866.0
57.5°	592.5	620.4	653.9	667.1	707.0
60°	521.2	552.2	582.6	581.1	602.4
62.5°	456.2	482.5	512.8	491.9	493.0
65°	350.7	379.8	414.2	361.9	328.9
67.5°	283.4	289.6	325.0	252.4	213.2
70°	251.7	251.7	261.6	195.4	162.5
72.5°	221.5	221.5	212.4	158.9	124.4
75°	176.4	176.4	160.5	110.2	75.3
77.5°	135.9	134.4	122.9	82.2	54.7
80°	109.0	109.0	99.1	64.9	43.6
82.5°	85.2	85.2	76.9	50.7	32.5
85°	49.5	49.5	45.6	29.5	17.8
87.5°	18.2	19.8	20.6	14.6	13.1
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)