

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: P519504

Luminaire Tested: **SQ4-WB-125U-100D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519504  
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-4  
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**

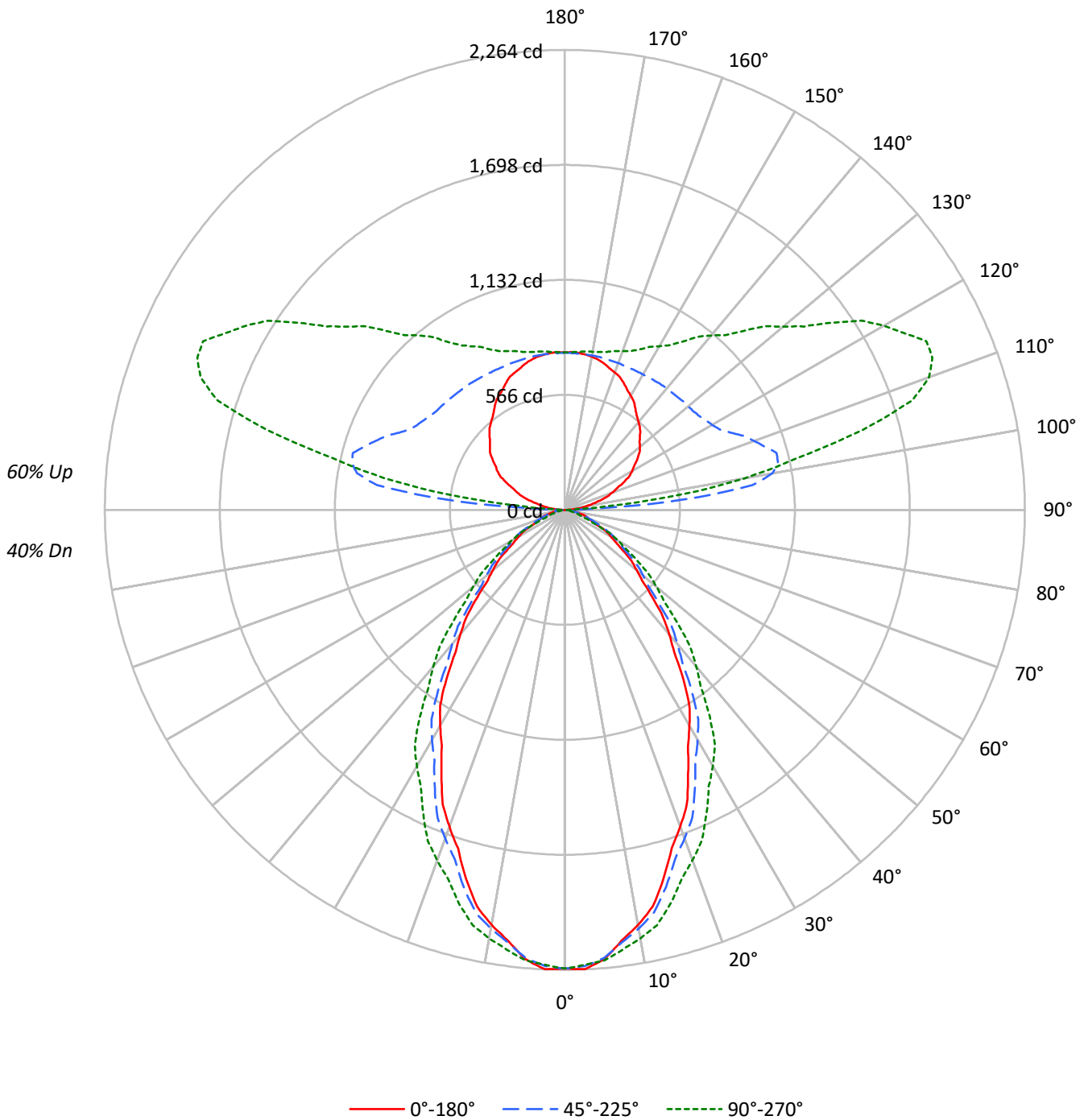
Lumens per Lamp: N/A  
Luminaire Lumens: 8291.6 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 64.5  
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	19614	20068
15°	17944	18360	19184
20°	16294	16907	18026
25°	14615	15413	16794
30°	13068	13923	15517
35°	11428	12253	14006
40°	9618	10382	12125
45°	7938	8623	10122
50°	6627	7224	8433
55°	5627	6199	6965
60°	4809	5375	5558
65°	3829	4521	3591
70°	3394	3528	2190
75°	3144	2862	1344
80°	2896	2630	1158
85°	2625	2414	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.1	2.5
10°-20°	538.7	6.5
20°-30°	697.8	8.4
30°-40°	683.3	8.2
40°-50°	523.0	6.3
50°-60°	348.5	4.2
60°-70°	190.2	2.3
70°-80°	79.3	1.0
80°-90°	24.3	0.3
90°-100°	362.3	4.4
100°-110°	975.9	11.8
110°-120°	1024.2	12.4
120°-130°	831.1	10.0
130°-140°	651.8	7.9
140°-150°	500.4	6.0
150°-160°	359.8	4.3
160°-170°	219.8	2.7
170°-180°	74.1	0.9
0°-30°	1443.6	17.4
0°-40°	2127.0	25.7
0°-60°	2998.5	36.2
0°-90°	3292.2	39.7
90°-120°	2362.3	28.5
90°-150°	4345.6	52.4
90°-180°	4999.0	60.3
0°-180°	8291.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2221	2199	2214	2219	2226	207
15°	1879	1872	1922	1974	2008	525
25°	1436	1440	1514	1580	1650	660
35°	1015	1019	1088	1161	1244	631
45°	608	620	661	711	776	474
55°	350	364	385	400	433	317
65°	175	190	207	181	164	182
75°	88	88	80	55	38	94
85°	25	25	23	15	9	27
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2258.0	2258.0	2258.0	2258.0	2258.0
2.5°	2263.6	2243.4	2248.5	2248.4	2242.2
5°	2221.4	2199.1	2213.5	2218.6	2226.3
7.5°	2139.0	2122.1	2148.3	2167.6	2183.3
10°	2074.7	2060.2	2093.6	2121.8	2142.1
12.5°	2000.2	1988.0	2029.4	2067.2	2093.8
15°	1878.6	1871.8	1922.2	1974.5	2008.4
17.5°	1748.4	1745.1	1802.9	1863.9	1907.3
20°	1659.6	1658.6	1722.0	1785.6	1836.0
22.5°	1570.0	1572.2	1638.8	1704.9	1762.2
25°	1435.7	1439.6	1514.0	1579.9	1649.7
27.5°	1311.4	1313.2	1390.1	1459.8	1534.2
30°	1226.6	1231.5	1306.9	1379.0	1456.5
32.5°	1141.8	1147.4	1221.3	1295.8	1374.8
35°	1014.6	1019.4	1087.9	1161.1	1243.5
37.5°	883.4	890.0	950.8	1020.0	1101.0
40°	798.6	808.3	862.0	927.2	1006.7
42.5°	716.9	729.0	778.8	840.6	912.3
45°	608.4	620.0	660.9	710.9	775.8
47.5°	514.8	528.2	559.6	602.7	658.1
50°	461.7	474.3	503.3	535.2	587.5
52.5°	414.9	427.5	453.4	478.0	522.6
55°	349.8	364.3	385.4	400.0	433.0
57.5°	296.3	310.2	327.0	333.6	353.5
60°	260.6	276.1	291.3	290.5	301.2
62.5°	228.1	241.3	256.4	245.9	246.5
65°	175.4	189.9	207.1	180.9	164.5
67.5°	141.7	144.8	162.5	126.2	106.6
70°	125.8	125.8	130.8	97.7	81.2
72.5°	110.8	110.8	106.2	79.5	62.2
75°	88.2	88.2	80.3	55.1	37.7
77.5°	68.0	67.2	61.4	41.1	27.3
80°	54.5	54.5	49.5	32.5	21.8
82.5°	42.6	42.6	38.4	25.4	16.2
85°	24.8	24.8	22.8	14.7	8.9
87.5°	9.1	9.9	10.3	7.3	6.5
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)