

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: P519480

Luminaire Tested: **SQ4-WB-125U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519480  
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-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

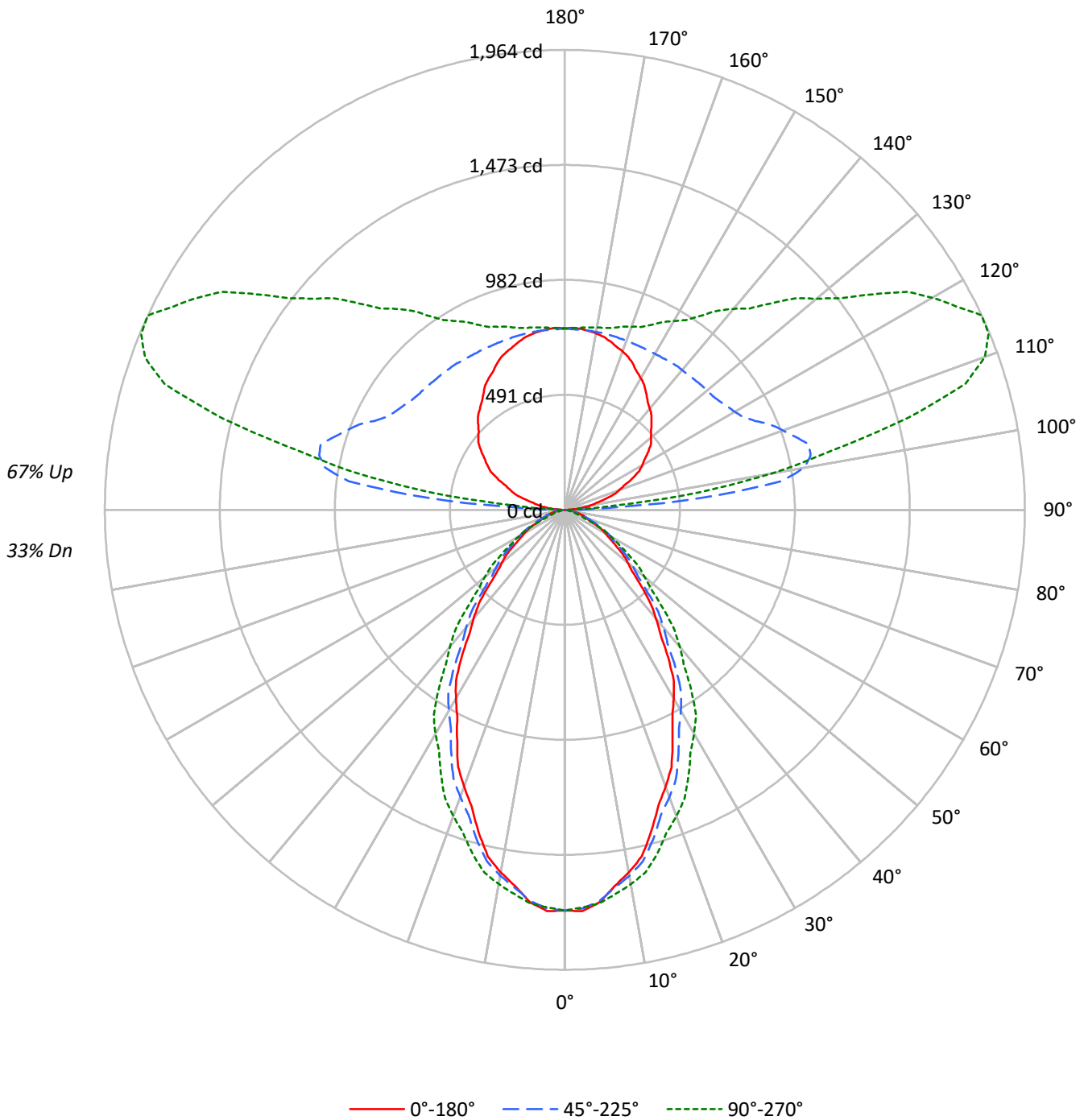
Lumens per Lamp: N/A  
Luminaire Lumens: 7494.6 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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					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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30				
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26				
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21				
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18				
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

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

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15534	15625
10°	14729	14863	15208
15°	13598	13913	14537
20°	12348	12812	13660
25°	11075	11680	12726
30°	9902	10550	11758
35°	8659	9285	10613
40°	7289	7867	9187
45°	6015	6534	7671
50°	5022	5474	6390
55°	4263	4699	5278
60°	3644	4072	4211
65°	2901	3425	2720
70°	2573	2673	1662
75°	2381	2167	1016
80°	2194	1992	877
85°	1990	1831	720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.0	2.1
10°-20°	408.2	5.4
20°-30°	528.8	7.1
30°-40°	517.8	6.9
40°-50°	396.3	5.3
50°-60°	264.1	3.5
60°-70°	144.1	1.9
70°-80°	60.0	0.8
80°-90°	18.8	0.3
90°-100°	362.3	4.8
100°-110°	975.9	13.0
110°-120°	1024.2	13.7
120°-130°	831.1	11.1
130°-140°	651.8	8.7
140°-150°	500.4	6.7
150°-160°	359.8	4.8
160°-170°	219.8	2.9
170°-180°	74.1	1.0
0°-30°	1094.0	14.6
0°-40°	1611.8	21.5
0°-60°	2272.2	30.3
0°-90°	2495.2	33.3
90°-120°	2362.3	31.5
90°-150°	4345.6	58.0
90°-180°	4999.0	66.7
0°-180°	7494.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1683	1666	1677	1681	1687	157
15°	1424	1418	1457	1496	1522	398
25°	1088	1091	1147	1197	1250	500
35°	769	772	824	880	942	478
45°	461	470	501	539	588	360
55°	265	276	292	303	328	240
65°	133	144	157	137	125	138
75°	67	67	61	42	28	71
85°	19	19	17	11	7	20
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°	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1715.3	1700.0	1703.9	1703.8	1699.1
5°	1683.3	1666.4	1677.3	1681.2	1687.1
7.5°	1620.9	1608.1	1627.9	1642.6	1654.5
10°	1572.2	1561.2	1586.5	1607.9	1623.3
12.5°	1515.8	1506.5	1537.8	1566.5	1586.6
15°	1423.6	1418.4	1456.6	1496.2	1521.9
17.5°	1324.9	1322.4	1366.2	1412.4	1445.3
20°	1257.6	1256.9	1304.9	1353.1	1391.3
22.5°	1189.7	1191.4	1241.9	1291.9	1335.4
25°	1087.9	1090.9	1147.3	1197.3	1250.1
27.5°	993.8	995.1	1053.4	1106.2	1162.6
30°	929.5	933.2	990.3	1045.0	1103.7
32.5°	865.2	869.5	925.5	981.9	1041.8
35°	768.8	772.5	824.4	879.9	942.3
37.5°	669.4	674.4	720.5	772.9	834.3
40°	605.2	612.5	653.2	702.6	762.8
42.5°	543.3	552.4	590.1	637.0	691.4
45°	461.0	469.8	500.8	538.7	587.9
47.5°	390.1	400.3	424.1	456.7	498.7
50°	349.9	359.4	381.4	405.6	445.2
52.5°	314.4	324.0	343.6	362.2	396.0
55°	265.0	276.1	292.1	303.1	328.1
57.5°	224.5	235.1	247.8	252.8	267.9
60°	197.5	209.2	220.7	220.2	228.2
62.5°	172.8	182.8	194.3	186.4	186.8
65°	132.9	143.9	156.9	137.1	124.6
67.5°	107.4	109.7	123.1	95.6	80.8
70°	95.4	95.4	99.1	74.0	61.6
72.5°	83.9	83.9	80.5	60.2	47.2
75°	66.8	66.8	60.8	41.7	28.5
77.5°	51.5	50.9	46.6	31.1	20.7
80°	41.3	41.3	37.5	24.6	16.5
82.5°	32.3	32.3	29.1	19.2	12.3
85°	18.8	18.8	17.3	11.2	6.8
87.5°	7.0	7.8	8.4	6.2	5.6
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)