

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: P518990

Luminaire Tested: **SQ4-WB-025U-050D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518990  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-050D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

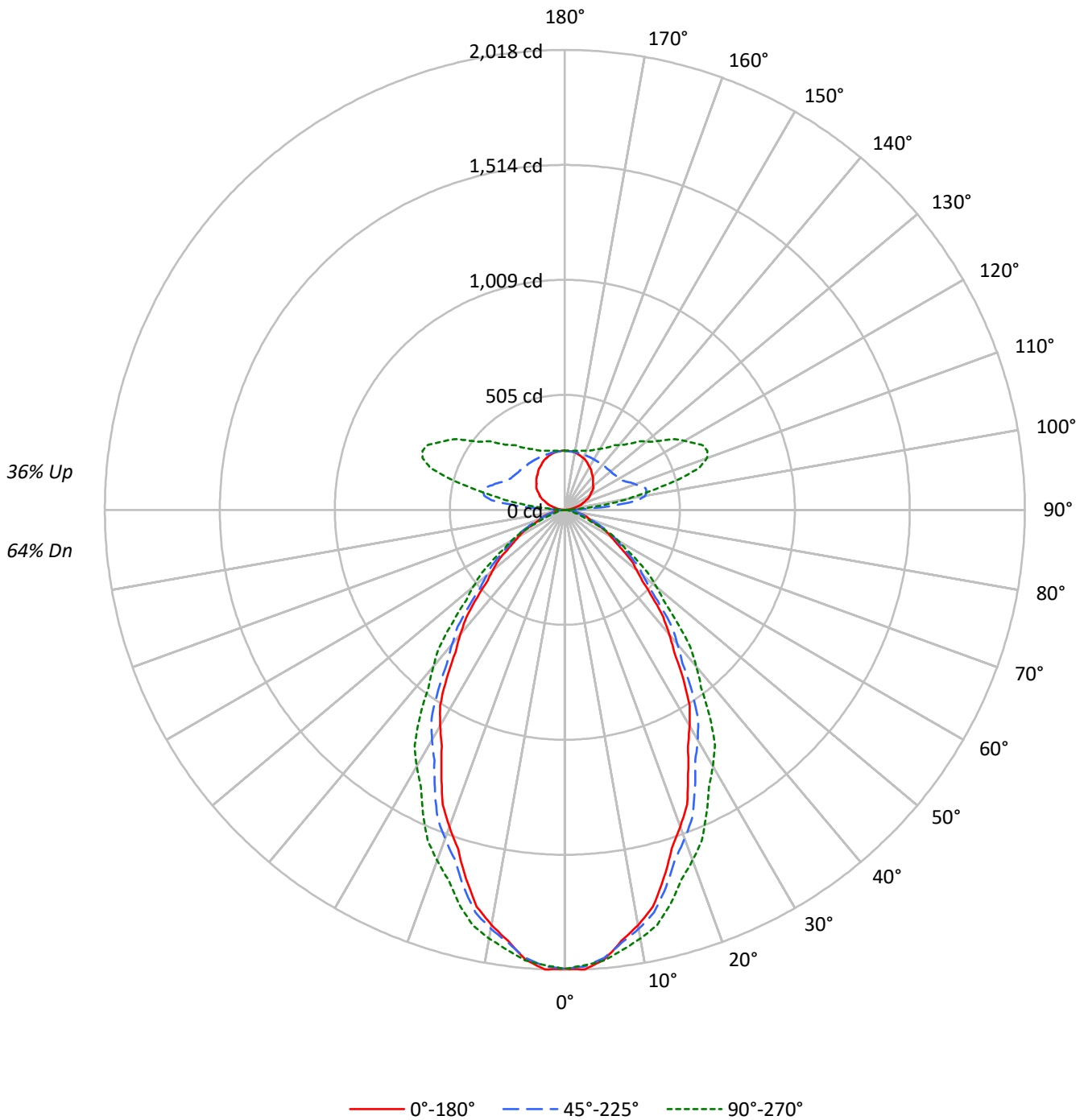
Lumens per Lamp: N/A  
Luminaire Lumens: 4613.9 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69	64				
1	102	98	95	92	96	93	90	87	82	80	78	72	70	69	63	62	61	56				
2	94	88	82	78	89	83	78	74	74	70	67	65	62	60	57	55	54	50				
3	87	79	72	67	82	74	68	64	66	62	58	59	56	53	52	50	47	44				
4	81	71	63	58	76	67	61	56	60	55	51	54	50	47	48	45	42	39				
5	75	64	56	51	70	61	54	49	55	49	45	49	45	41	44	41	38	35				
6	69	58	51	45	65	55	48	44	50	44	40	45	41	37	40	37	34	32				
7	65	53	46	40	61	51	44	39	46	40	36	42	37	34	37	34	31	29				
8	60	49	41	36	57	47	40	35	42	37	33	38	34	31	35	31	28	26				
9	57	45	38	33	53	43	37	32	39	34	30	36	31	28	32	29	26	24				
10	53	42	35	30	50	40	34	29	37	31	28	33	29	26	30	27	24	22				

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

	0°	45°	90°
0°	9288	9288	9288
5°	9172	9140	9192
10°	8666	8745	8947
15°	8000	8185	8553
20°	7265	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4628	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2509	2764	3105
60°	2144	2396	2478
65°	1707	2015	1601
70°	1513	1573	977
75°	1401	1276	599
80°	1291	1174	515
85°	1170	1074	423



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	4.0
10°-20°	480.4	10.4
20°-30°	622.2	13.5
30°-40°	609.3	13.2
40°-50°	466.4	10.1
50°-60°	310.8	6.7
60°-70°	169.6	3.7
70°-80°	70.7	1.5
80°-90°	21.4	0.5
90°-100°	126.2	2.7
100°-110°	331.8	7.2
110°-120°	344.1	7.5
120°-130°	276.0	6.0
130°-140°	216.6	4.7
140°-150°	166.2	3.6
150°-160°	119.7	2.6
160°-170°	73.2	1.6
170°-180°	24.7	0.5
0°-30°	1287.2	27.9
0°-40°	1896.5	41.1
0°-60°	2673.7	57.9
0°-90°	2935.3	63.6
90°-120°	802.1	17.4
90°-150°	1460.9	31.7
90°-180°	1679.0	36.4
0°-180°	4613.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	1981	1961	1974	1978	1985	184
15°	1675	1669	1714	1760	1791	468
25°	1280	1284	1350	1409	1471	589
35°	905	909	970	1035	1109	562
45°	542	553	589	634	692	423
55°	312	325	344	357	386	283
65°	156	169	185	161	147	163
75°	79	79	72	49	34	84
85°	22	22	20	13	8	24
90°	2	5	13	7	7	3
95°	17	65	218	112	76	19
105°	60	91	367	557	520	63
115°	106	129	294	586	669	105
125°	148	166	267	452	533	131
135°	176	194	259	365	413	136
145°	204	217	256	311	335	128
155°	231	237	256	281	289	106
165°	249	252	256	266	269	70
175°	259	259	257	261	261	25
180°	259	259	259	259	259	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2013.4	2013.4	2013.4	2013.4	2013.4
2.5°	2018.4	2000.4	2004.9	2004.8	1999.3
5°	1980.7	1960.9	1973.7	1978.2	1985.1
7.5°	1907.2	1892.2	1915.5	1932.8	1946.8
10°	1850.0	1837.0	1866.8	1891.9	1910.0
12.5°	1783.5	1772.6	1809.5	1843.3	1866.9
15°	1675.0	1669.0	1713.9	1760.5	1790.8
17.5°	1559.0	1556.0	1607.5	1662.0	1700.7
20°	1479.8	1478.9	1535.5	1592.1	1637.1
22.5°	1399.9	1401.8	1461.2	1520.2	1571.3
25°	1280.1	1283.6	1349.9	1408.8	1471.0
27.5°	1169.4	1170.9	1239.5	1301.6	1368.0
30°	1093.7	1098.0	1165.3	1229.6	1298.7
32.5°	1018.1	1023.1	1089.0	1155.4	1225.9
35°	904.7	909.0	970.0	1035.3	1108.7
37.5°	787.7	793.6	847.8	909.5	981.7
40°	712.1	720.7	768.6	826.8	897.6
42.5°	639.3	650.0	694.4	749.6	813.5
45°	542.4	552.8	589.3	633.9	691.8
47.5°	459.0	471.0	499.0	537.4	586.8
50°	411.7	422.9	448.8	477.2	523.9
52.5°	370.0	381.2	404.3	426.2	465.9
55°	311.9	324.8	343.7	356.7	386.1
57.5°	264.2	276.6	291.5	297.4	315.2
60°	232.4	246.2	259.7	259.1	268.6
62.5°	203.4	215.1	228.6	219.3	219.8
65°	156.4	169.3	184.6	161.3	146.7
67.5°	126.3	129.1	144.9	112.5	95.1
70°	112.2	112.2	116.6	87.1	72.4
72.5°	98.8	98.8	94.7	70.9	55.5
75°	78.6	78.6	71.6	49.1	33.6
77.5°	60.6	59.9	54.8	36.6	24.4
80°	48.6	48.6	44.2	28.9	19.4
82.5°	38.0	38.0	34.3	22.6	14.5
85°	22.1	22.1	20.3	13.1	8.0
87.5°	8.1	8.8	9.7	5.6	4.9
90°	1.7	4.9	13.3	6.6	6.6
92.5°	7.0	33.6	74.4	32.9	21.2
95°	16.6	65.3	217.5	112.1	76.4
97.5°	28.9	71.7	325.4	258.8	190.6
100°	38.2	77.1	358.6	363.4	282.2
102.5°	46.2	82.5	367.9	452.6	383.1
105°	59.8	90.6	366.9	556.9	519.6
107.5°	73.7	102.3	346.0	611.1	620.2
110°	83.0	109.0	328.7	625.1	664.0

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	92.3	117.0	312.8	616.3	676.0
115°	106.2	129.0	293.8	586.2	669.0
117.5°	119.9	140.6	280.9	544.6	636.5
120°	127.8	147.3	275.6	516.7	605.9
122.5°	135.8	155.3	271.6	488.7	576.7
125°	147.7	165.6	267.3	451.7	532.9
127.5°	157.4	175.6	263.6	421.9	490.4
130°	162.7	182.2	262.3	403.2	466.5
132.5°	168.0	187.5	261.0	387.1	443.9
135°	176.0	193.8	259.0	364.7	413.4
137.5°	184.3	201.8	258.6	347.9	387.8
140°	190.9	207.1	257.3	334.5	371.9
142.5°	196.2	211.2	257.3	325.1	357.3
145°	204.2	217.2	255.7	311.0	335.3
147.5°	212.2	224.8	255.7	299.3	319.4
150°	217.5	228.8	255.7	292.5	308.8
152.5°	222.8	231.5	255.7	287.1	299.5
155°	230.8	237.2	255.7	280.7	288.9
157.5°	236.7	242.9	255.7	275.0	280.9
160°	240.7	245.6	255.7	272.3	275.6
162.5°	244.7	248.3	255.7	269.7	272.9
165°	249.0	252.3	255.7	265.7	268.9
167.5°	253.0	254.6	257.3	264.0	265.3
170°	255.7	257.3	257.3	264.0	264.0
172.5°	257.0	257.3	257.3	262.6	261.3
175°	259.0	259.0	257.3	260.6	260.6
177.5°	259.0	259.0	257.6	260.3	259.0
180°	259.0	259.0	259.0	259.0	259.0

(END OF REPORT)