

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521740

Luminaire Tested: **SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P521740  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,  
Test Lab: INNOVATION CENTER  
Issue Date: 5/5/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (4000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

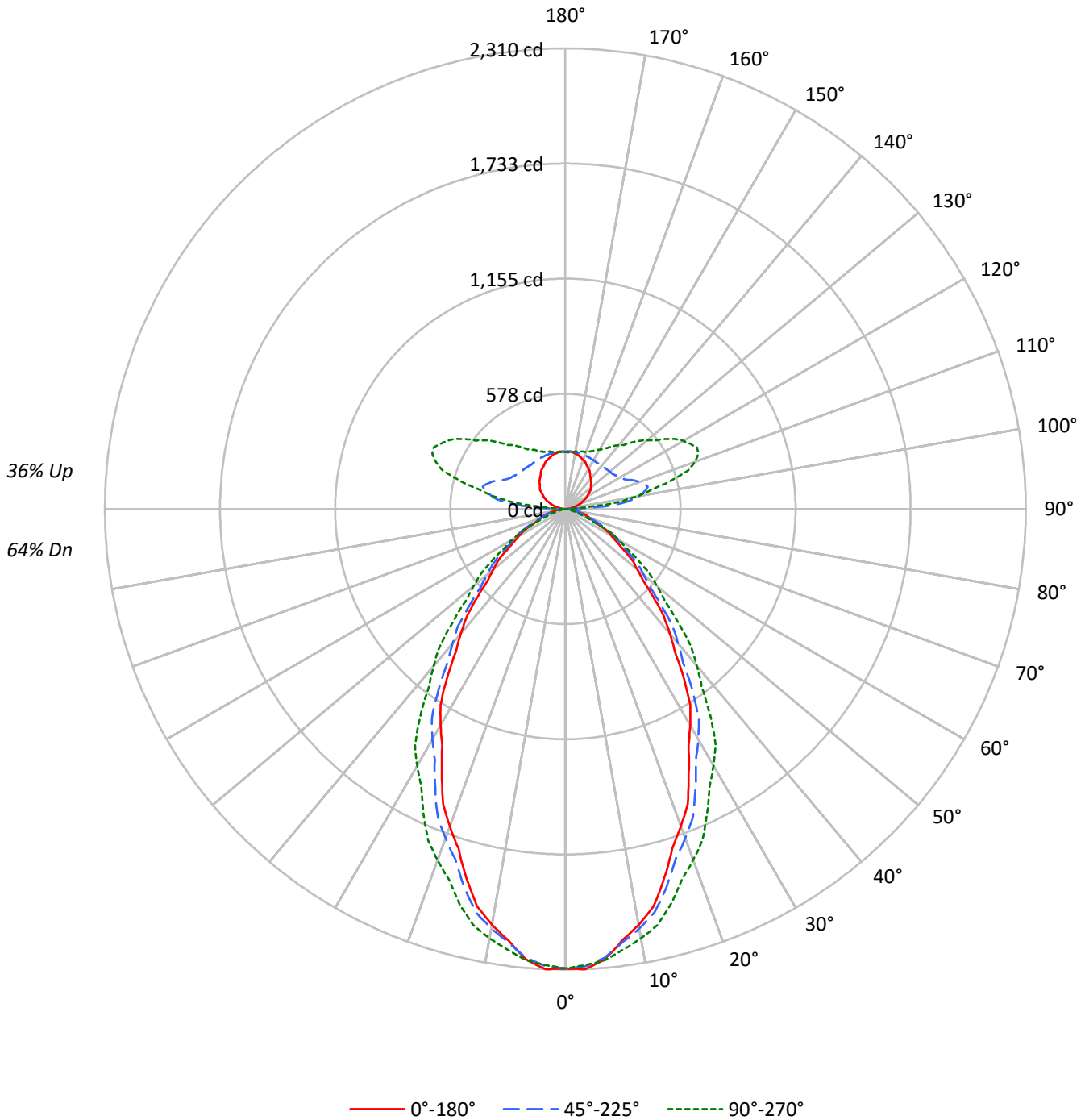
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5213.6 lumens  
Efficiency: N/A  
Efficacy: 91.8 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-Direct

Input Watts (W): 56.8  
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64	64	64	64	
1	102	99	95	92	96	93	90	87	82	80	78	73	71	70	64	62	61	57	57	57	57	
2	95	88	82	78	89	83	78	74	74	70	67	66	63	61	58	56	54	50	50	50	50	
3	87	79	72	67	82	75	69	64	67	62	58	59	56	53	53	50	48	45	45	45	45	
4	81	71	64	58	76	67	61	56	60	55	51	54	50	47	48	45	43	40	40	40	40	
5	75	64	57	51	70	61	54	49	55	50	45	49	45	42	44	41	38	36	36	36	36	
6	70	58	51	45	66	56	49	44	50	45	41	45	41	38	41	37	35	32	32	32	32	
7	65	53	46	41	61	51	44	39	46	41	37	42	37	34	38	34	32	29	29	29	29	
8	61	49	42	37	57	47	40	35	43	37	33	39	34	31	35	32	29	27	27	27	27	
9	57	45	38	33	54	43	37	32	40	34	30	36	32	28	33	29	26	25	25	25	25	
10	53	42	35	30	51	40	34	30	37	31	28	34	29	26	31	27	24	23	23	23	23	

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

	0°	45°	90°
0°	21265	21265	21265
5°	20999	20924	21046
10°	19840	20020	20484
15°	18315	18739	19580
20°	16632	17258	18400
25°	14918	15731	17141
30°	13338	14211	15837
35°	11664	12507	14295
40°	9817	10596	12375
45°	8101	8801	10333
50°	6765	7373	8608
55°	5742	6328	7108
60°	4908	5486	5672
65°	3908	4615	3665
70°	3464	3601	2236
75°	3208	2920	1369
80°	2954	2688	1180
85°	2678	2467	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.4	4.1
10°-20°	549.9	10.5
20°-30°	712.2	13.7
30°-40°	697.5	13.4
40°-50°	533.9	10.2
50°-60°	355.7	6.8
60°-70°	194.1	3.7
70°-80°	80.9	1.6
80°-90°	22.9	0.4
90°-100°	147.7	2.8
100°-110°	357.0	6.8
110°-120°	380.7	7.3
120°-130°	308.4	5.9
130°-140°	238.7	4.6
140°-150°	182.1	3.5
150°-160°	131.8	2.5
160°-170°	81.2	1.6
170°-180°	27.5	0.5
0°-30°	1473.5	28.3
0°-40°	2171.0	41.6
0°-60°	3060.6	58.7
0°-90°	3358.5	64.4
90°-120°	885.4	17.0
90°-150°	1614.6	31.0
90°-180°	1855.0	35.6
0°-180°	5213.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2267	2245	2259	2264	2272	211
15°	1918	1910	1962	2015	2050	535
25°	1465	1469	1545	1613	1684	674
35°	1036	1040	1110	1185	1269	644
45°	621	633	674	726	792	484
55°	357	372	393	408	442	324
65°	179	194	211	185	168	186
75°	90	90	82	56	38	96
85°	25	25	23	15	9	27
90°	0	0	0	0	0	2
95°	15	74	253	164	115	16
105°	57	99	429	555	548	60
115°	104	134	345	654	729	103
125°	149	171	299	520	610	133
135°	183	204	287	410	472	141
145°	216	232	282	348	376	135
155°	248	258	285	308	320	114
165°	274	278	289	293	297	77
175°	290	288	290	287	286	27
180°	286	286	286	286	286	

TEST NUMBER: P521740

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2304.8	2304.8	2304.8	2304.8	2304.8
2.5°	2310.4	2289.9	2295.1	2294.9	2288.6
5°	2267.4	2244.6	2259.3	2264.5	2272.4
7.5°	2183.2	2166.0	2192.7	2212.5	2228.5
10°	2117.7	2102.9	2136.9	2165.7	2186.5
12.5°	2041.6	2029.2	2071.4	2110.0	2137.1
15°	1917.5	1910.5	1961.9	2015.3	2049.9
17.5°	1784.6	1781.2	1840.2	1902.5	1946.8
20°	1694.0	1693.0	1757.7	1822.5	1874.0
22.5°	1602.5	1604.7	1672.7	1740.2	1798.7
25°	1465.4	1469.3	1545.3	1612.6	1683.8
27.5°	1338.6	1340.4	1418.9	1490.0	1565.9
30°	1252.0	1257.0	1333.9	1407.5	1486.6
32.5°	1165.4	1171.2	1246.5	1322.6	1403.3
35°	1035.6	1040.5	1110.4	1185.1	1269.2
37.5°	901.7	908.4	970.5	1041.1	1123.8
40°	815.1	825.0	879.8	946.4	1027.5
42.5°	731.8	744.0	794.9	858.0	931.2
45°	620.9	632.8	674.5	725.6	791.9
47.5°	525.5	539.1	571.2	615.2	671.7
50°	471.3	484.1	513.7	546.3	599.7
52.5°	423.5	436.4	462.8	487.9	533.4
55°	357.0	371.8	393.4	408.3	441.9
57.5°	302.4	316.6	333.7	340.5	360.8
60°	266.0	281.8	297.3	296.6	307.4
62.5°	232.8	246.3	261.7	251.0	251.6
65°	179.0	193.8	211.4	184.7	167.9
67.5°	144.6	147.8	165.9	128.8	108.8
70°	128.4	128.4	133.5	99.7	82.9
72.5°	113.1	113.1	108.4	81.1	63.5
75°	90.0	90.0	81.9	56.2	38.4
77.5°	69.4	68.6	62.7	42.0	27.9
80°	55.6	55.6	50.6	33.1	22.2
82.5°	43.5	43.5	39.2	25.9	16.6
85°	25.3	25.3	23.3	15.0	9.1
87.5°	8.9	8.9	8.1	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.0	94.2	45.8	31.1
95°	14.6	73.9	253.1	164.5	115.3
97.5°	25.9	81.9	333.3	321.1	275.6
100°	34.6	86.8	377.5	398.5	361.1
102.5°	42.8	91.3	406.6	462.9	440.7
105°	57.0	98.6	429.0	555.1	548.0
107.5°	71.0	107.2	415.8	629.1	645.8
110°	80.7	114.5	394.4	661.0	692.4

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	90.4	121.9	375.5	668.7	722.5
115°	104.4	133.5	344.7	653.5	728.8
117.5°	118.2	145.6	326.6	618.3	706.6
120°	127.4	153.0	314.9	590.7	683.3
122.5°	137.1	160.8	307.7	562.5	653.7
125°	148.7	171.2	299.2	519.7	610.5
127.5°	160.1	181.3	293.2	483.4	563.1
130°	166.9	187.6	291.3	458.1	536.4
132.5°	173.2	194.9	288.4	439.9	506.3
135°	182.7	204.0	287.0	409.8	471.5
137.5°	191.6	213.1	282.8	389.4	436.0
140°	198.4	218.0	282.8	374.8	417.5
142.5°	205.2	224.8	280.4	362.0	398.1
145°	216.0	232.1	281.6	348.3	375.6
147.5°	226.1	241.7	280.8	332.6	355.1
150°	232.4	246.1	282.8	325.7	343.5
152.5°	239.2	252.4	282.3	318.3	334.2
155°	247.6	258.3	285.2	308.5	319.8
157.5°	257.7	266.8	284.6	304.8	311.4
160°	261.5	269.3	287.0	299.9	304.6
162.5°	267.9	274.6	286.1	298.4	301.2
165°	273.7	277.8	288.9	293.2	297.4
167.5°	280.8	283.6	288.1	292.9	293.0
170°	282.8	284.6	290.1	289.5	292.5
172.5°	286.2	287.5	288.6	289.9	288.1
175°	289.5	288.3	289.5	287.0	286.4
177.5°	288.9	288.9	287.9	286.9	284.5
180°	286.4	286.4	286.4	286.4	286.4

(END OF REPORT)