

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: P518976

Luminaire Tested: **SQ4-WB-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518976  
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-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

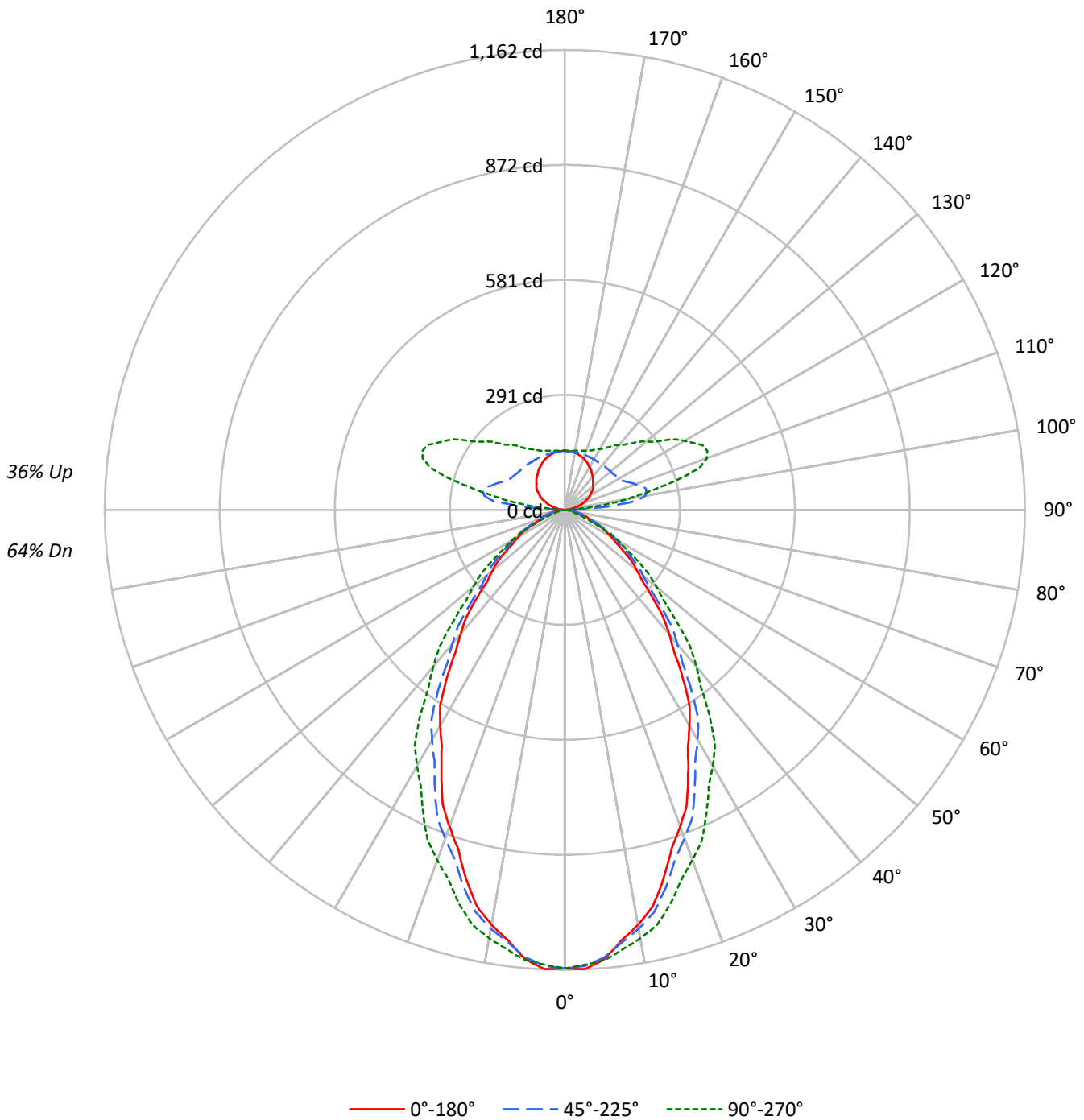
Lumens per Lamp: N/A  
Luminaire Lumens: 2655.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 22.1  
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°	10689	10689	10689
5°	10556	10518	10579
10°	9974	10064	10297
15°	9207	9421	9843
20°	8360	8675	9249
25°	7499	7908	8617
30°	6705	7144	7961
35°	5864	6287	7186
40°	4936	5327	6221
45°	4072	4425	5194
50°	3400	3707	4328
55°	2887	3182	3574
60°	2467	2759	2851
65°	1965	2321	1843
70°	1743	1810	1125
75°	1611	1469	688
80°	1488	1350	595
85°	1344	1239	487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	4.0
10°-20°	276.4	10.4
20°-30°	358.0	13.5
30°-40°	350.6	13.2
40°-50°	268.4	10.1
50°-60°	178.8	6.7
60°-70°	97.6	3.7
70°-80°	40.7	1.5
80°-90°	12.3	0.5
90°-100°	72.6	2.7
100°-110°	190.9	7.2
110°-120°	198.0	7.5
120°-130°	158.8	6.0
130°-140°	124.6	4.7
140°-150°	95.6	3.6
150°-160°	68.9	2.6
160°-170°	42.1	1.6
170°-180°	14.2	0.5
0°-30°	740.7	27.9
0°-40°	1091.3	41.1
0°-60°	1538.6	57.9
0°-90°	1689.1	63.6
90°-120°	461.6	17.4
90°-150°	840.6	31.7
90°-180°	966.0	36.4
0°-180°	2655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1159	1159	1159	1159	1159	
5°	1140	1128	1136	1138	1142	106
15°	964	960	986	1013	1030	269
25°	737	739	777	811	846	339
35°	521	523	558	596	638	324
45°	312	318	339	365	398	243
55°	180	187	198	205	222	163
65°	90	97	106	93	84	94
75°	45	45	41	28	19	48
85°	13	13	12	8	5	14
90°	1	3	8	4	4	1
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1158.6	1158.6	1158.6	1158.6	1158.6
2.5°	1161.5	1151.1	1153.7	1153.7	1150.5
5°	1139.8	1128.4	1135.7	1138.4	1142.3
7.5°	1097.5	1088.8	1102.3	1112.2	1120.3
10°	1064.6	1057.1	1074.2	1088.7	1099.1
12.5°	1026.3	1020.1	1041.3	1060.7	1074.3
15°	963.9	960.4	986.3	1013.1	1030.5
17.5°	897.1	895.4	925.1	956.4	978.6
20°	851.5	851.0	883.6	916.2	942.0
22.5°	805.6	806.7	840.9	874.8	904.2
25°	736.6	738.6	776.8	810.7	846.5
27.5°	672.9	673.8	713.3	749.0	787.2
30°	629.4	631.9	670.6	707.6	747.3
32.5°	585.9	588.7	626.6	664.9	705.4
35°	520.6	523.1	558.2	595.8	638.0
37.5°	453.3	456.7	487.8	523.4	564.9
40°	409.8	414.7	442.3	475.8	516.5
42.5°	367.9	374.0	399.6	431.3	468.1
45°	312.1	318.1	339.1	364.8	398.1
47.5°	264.2	271.0	287.1	309.2	337.7
50°	236.9	243.4	258.3	274.6	301.5
52.5°	212.9	219.4	232.6	245.3	268.1
55°	179.5	186.9	197.8	205.3	222.2
57.5°	152.0	159.2	167.8	171.2	181.4
60°	133.7	141.7	149.5	149.1	154.5
62.5°	117.0	123.8	131.6	126.2	126.5
65°	90.0	97.4	106.3	92.8	84.4
67.5°	72.7	74.3	83.4	64.7	54.7
70°	64.6	64.6	67.1	50.1	41.7
72.5°	56.8	56.8	54.5	40.8	31.9
75°	45.2	45.2	41.2	28.3	19.3
77.5°	34.9	34.5	31.5	21.1	14.0
80°	28.0	28.0	25.4	16.7	11.2
82.5°	21.9	21.9	19.7	13.0	8.3
85°	12.7	12.7	11.7	7.6	4.6
87.5°	4.7	5.0	5.6	3.2	2.8
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)