

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: P518989

Luminaire Tested: **SQ4-WB-025U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518989
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-6
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

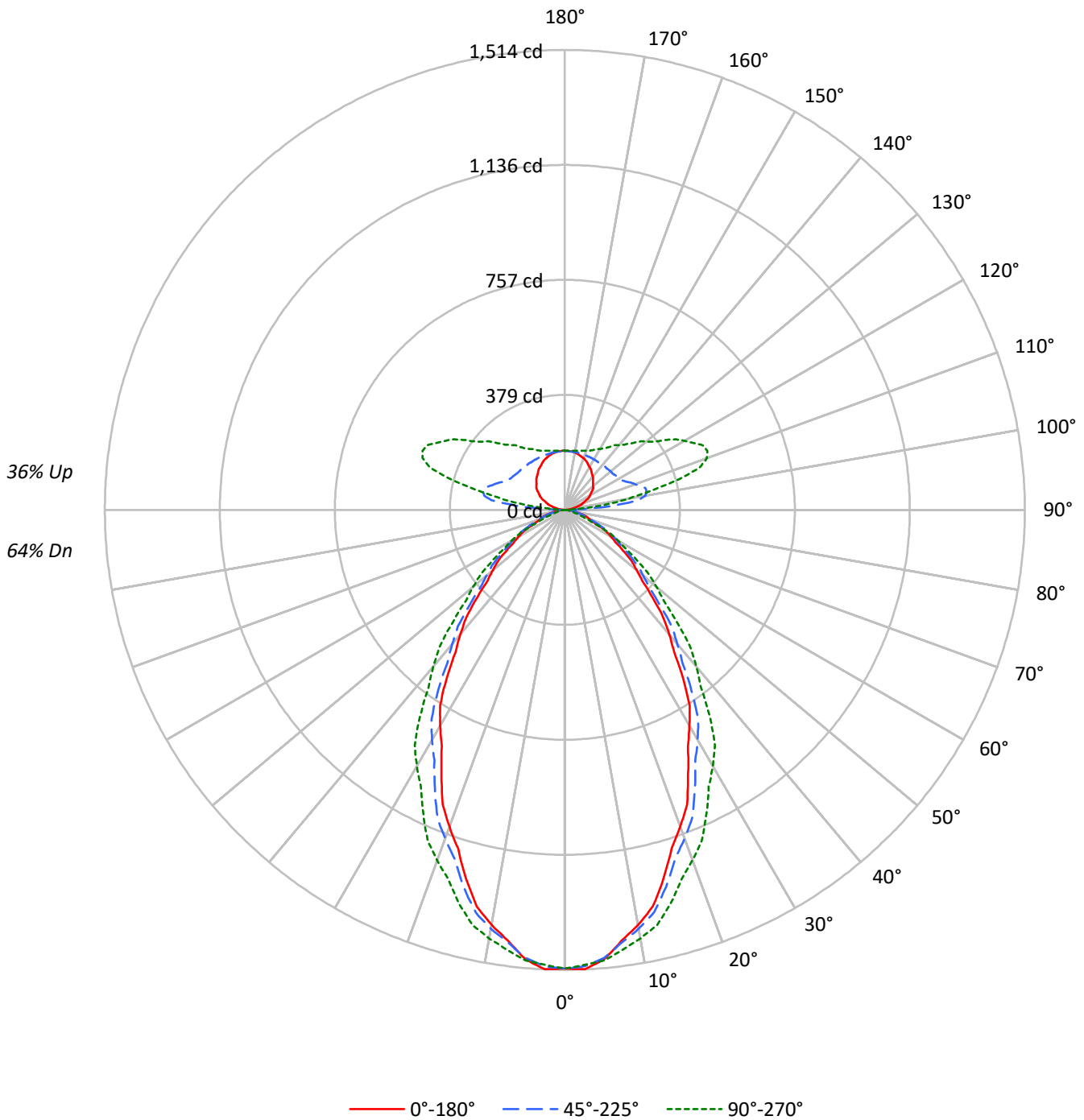
Lumens per Lamp: N/A
Luminaire Lumens: 3460.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	9139	9193
10°	8666	8745	8947
15°	8000	8185	8553
20°	7264	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4629	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2508	2765	3106
60°	2144	2396	2478
65°	1707	2016	1601
70°	1512	1574	977
75°	1402	1276	599
80°	1289	1172	517
85°	1172	1073	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	4.0
10°-20°	360.3	10.4
20°-30°	466.6	13.5
30°-40°	457.0	13.2
40°-50°	349.8	10.1
50°-60°	233.1	6.7
60°-70°	127.2	3.7
70°-80°	53.0	1.5
80°-90°	16.1	0.5
90°-100°	94.7	2.7
100°-110°	248.9	7.2
110°-120°	258.1	7.5
120°-130°	207.0	6.0
130°-140°	162.4	4.7
140°-150°	124.6	3.6
150°-160°	89.8	2.6
160°-170°	54.9	1.6
170°-180°	18.6	0.5
0°-30°	965.4	27.9
0°-40°	1422.4	41.1
0°-60°	2005.2	57.9
0°-90°	2201.5	63.6
90°-120°	601.6	17.4
90°-150°	1095.7	31.7
90°-180°	1259.0	36.4
0°-180°	3460.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1486	1471	1480	1484	1489	138
15°	1256	1252	1285	1320	1343	351
25°	960	963	1012	1057	1103	442
35°	678	682	728	776	832	422
45°	407	415	442	475	519	317
55°	234	244	258	268	290	212
65°	117	127	138	121	110	122
75°	59	59	54	37	25	63
85°	17	17	15	10	6	18
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	1513.8	1500.3	1503.7	1503.6	1499.5
5°	1485.5	1470.6	1480.2	1483.7	1488.9
7.5°	1430.4	1419.1	1436.6	1449.6	1460.1
10°	1387.5	1377.8	1400.1	1418.9	1432.5
12.5°	1337.7	1329.5	1357.1	1382.4	1400.2
15°	1256.3	1251.7	1285.4	1320.4	1343.1
17.5°	1169.2	1167.0	1205.7	1246.5	1275.5
20°	1109.8	1109.2	1151.6	1194.1	1227.8
22.5°	1050.0	1051.4	1095.9	1140.1	1178.5
25°	960.1	962.7	1012.4	1056.6	1103.2
27.5°	877.0	878.2	929.6	976.2	1026.0
30°	820.3	823.5	874.0	922.2	974.0
32.5°	763.6	767.3	816.7	866.6	919.4
35°	678.5	681.7	727.5	776.5	831.6
37.5°	590.8	595.2	635.8	682.1	736.3
40°	534.1	540.5	576.5	620.1	673.2
42.5°	479.5	487.5	520.8	562.2	610.1
45°	406.8	414.6	442.0	475.4	518.8
47.5°	344.3	353.2	374.2	403.0	440.1
50°	308.8	317.2	336.6	357.9	392.9
52.5°	277.5	285.9	303.2	319.7	349.5
55°	233.9	243.6	257.8	267.5	289.6
57.5°	198.1	207.4	218.7	223.1	236.4
60°	174.3	184.6	194.8	194.3	201.4
62.5°	152.5	161.3	171.5	164.5	164.9
65°	117.3	127.0	138.5	121.0	110.0
67.5°	94.8	96.8	108.7	84.4	71.3
70°	84.1	84.1	87.5	65.3	54.3
72.5°	74.1	74.1	71.0	53.1	41.6
75°	59.0	59.0	53.7	36.8	25.2
77.5°	45.5	44.9	41.1	27.5	18.3
80°	36.4	36.4	33.1	21.7	14.6
82.5°	28.5	28.5	25.7	17.0	10.9
85°	16.6	16.6	15.2	9.9	6.0
87.5°	6.1	6.6	7.3	4.2	3.6
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)