

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: P518985

Luminaire Tested: **SQ4-WB-025U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518985
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

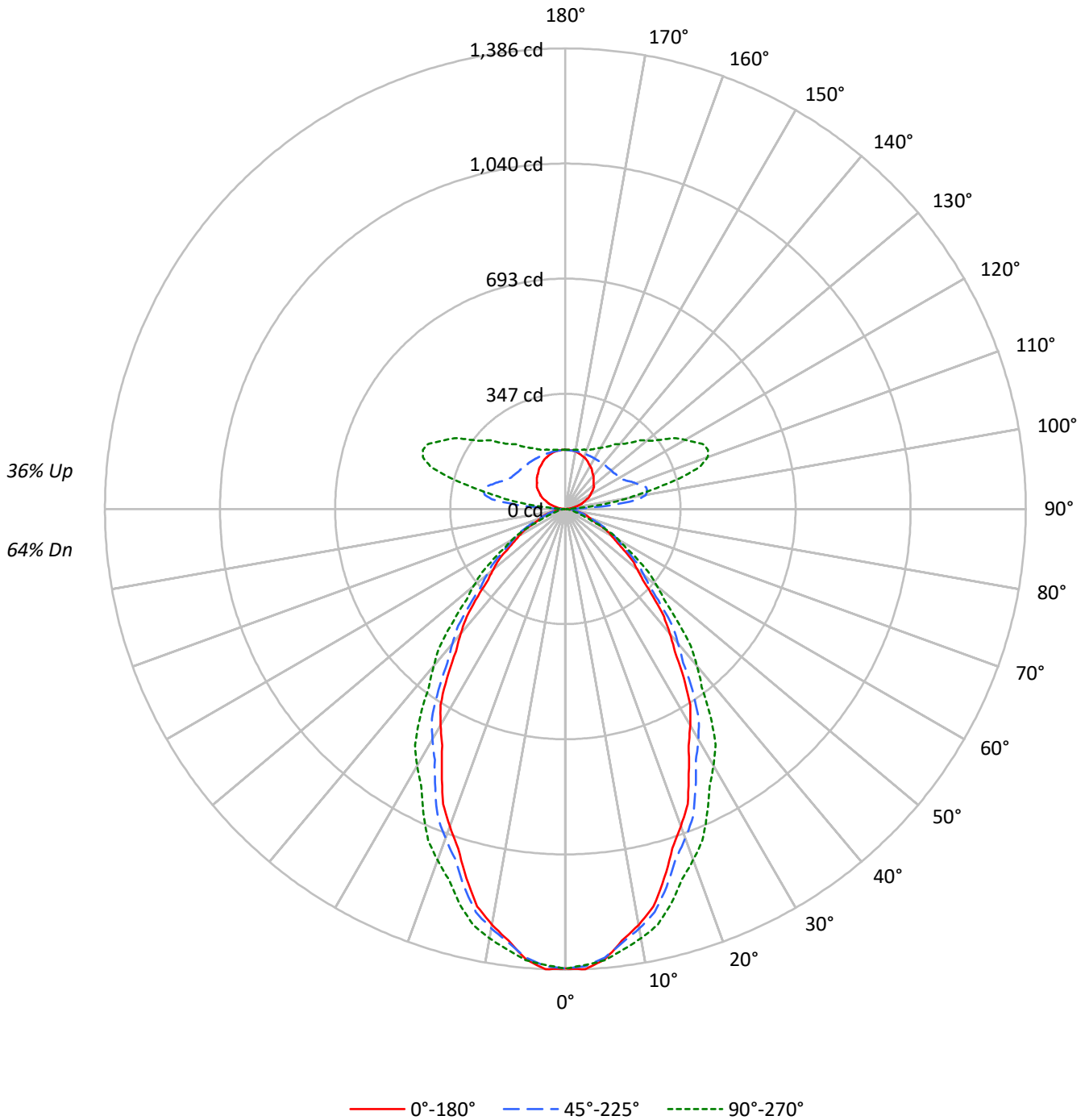
Lumens per Lamp: N/A
Luminaire Lumens: 3169.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	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°	8507	8507	8507
5°	8400	8370	8419
10°	7936	8008	8194
15°	7326	7496	7832
20°	6653	6904	7360
25°	5968	6293	6857
30°	5335	5685	6335
35°	4666	5003	5719
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2532	2844
60°	1963	2195	2270
65°	1563	1845	1466
70°	1387	1440	896
75°	1283	1169	549
80°	1183	1073	475
85°	1073	988	388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	4.0
10°-20°	329.9	10.4
20°-30°	427.4	13.5
30°-40°	418.5	13.2
40°-50°	320.3	10.1
50°-60°	213.5	6.7
60°-70°	116.5	3.7
70°-80°	48.5	1.5
80°-90°	14.7	0.5
90°-100°	86.7	2.7
100°-110°	227.9	7.2
110°-120°	236.3	7.5
120°-130°	189.6	6.0
130°-140°	148.7	4.7
140°-150°	114.2	3.6
150°-160°	82.2	2.6
160°-170°	50.3	1.6
170°-180°	17.0	0.5
0°-30°	884.2	27.9
0°-40°	1302.7	41.1
0°-60°	1836.5	57.9
0°-90°	2016.2	63.6
90°-120°	551.0	17.4
90°-150°	1003.4	31.7
90°-180°	1153.0	36.4
0°-180°	3169.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1360	1347	1356	1359	1364	127
15°	1150	1146	1177	1209	1230	321
25°	879	882	927	968	1010	404
35°	621	624	666	711	762	386
45°	373	380	405	435	475	291
55°	214	223	236	245	265	194
65°	107	116	127	111	101	112
75°	54	54	49	34	23	58
85°	15	15	14	9	6	17
90°	1	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.0	1383.0	1383.0	1383.0	1383.0
2.5°	1386.3	1374.0	1377.1	1377.0	1373.2
5°	1360.5	1346.9	1355.6	1358.8	1363.5
7.5°	1310.0	1299.7	1315.7	1327.6	1337.2
10°	1270.7	1261.8	1282.2	1299.5	1312.0
12.5°	1225.1	1217.6	1242.9	1266.1	1282.3
15°	1150.5	1146.4	1177.2	1209.3	1230.0
17.5°	1070.8	1068.8	1104.2	1141.6	1168.1
20°	1016.4	1015.8	1054.7	1093.6	1124.4
22.5°	961.6	962.9	1003.7	1044.2	1079.3
25°	879.3	881.7	927.2	967.6	1010.4
27.5°	803.2	804.3	851.4	894.0	939.6
30°	751.2	754.2	800.4	844.6	892.0
32.5°	699.3	702.7	748.0	793.6	842.0
35°	621.4	624.4	666.3	711.1	761.6
37.5°	541.0	545.1	582.3	624.7	674.3
40°	489.1	495.0	527.9	567.9	616.5
42.5°	439.1	446.5	477.0	514.9	558.8
45°	372.6	379.7	404.8	435.4	475.1
47.5°	315.3	323.5	342.7	369.1	403.1
50°	282.8	290.5	308.3	327.8	359.8
52.5°	254.1	261.9	277.7	292.7	320.0
55°	214.2	223.1	236.1	245.0	265.2
57.5°	181.4	190.0	200.3	204.3	216.5
60°	159.6	169.1	178.4	177.9	184.5
62.5°	139.7	147.8	157.0	150.6	151.0
65°	107.4	116.3	126.8	110.8	100.7
67.5°	86.8	88.7	99.5	77.3	65.3
70°	77.1	77.1	80.1	59.8	49.8
72.5°	67.8	67.8	65.1	48.7	38.1
75°	54.0	54.0	49.2	33.7	23.1
77.5°	41.6	41.2	37.6	25.2	16.7
80°	33.4	33.4	30.3	19.9	13.4
82.5°	26.1	26.1	23.5	15.5	10.0
85°	15.2	15.2	14.0	9.0	5.5
87.5°	5.6	6.0	6.7	3.8	3.3
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)