

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: P518993

Luminaire Tested: **SQ4-WB-025U-050D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518993
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

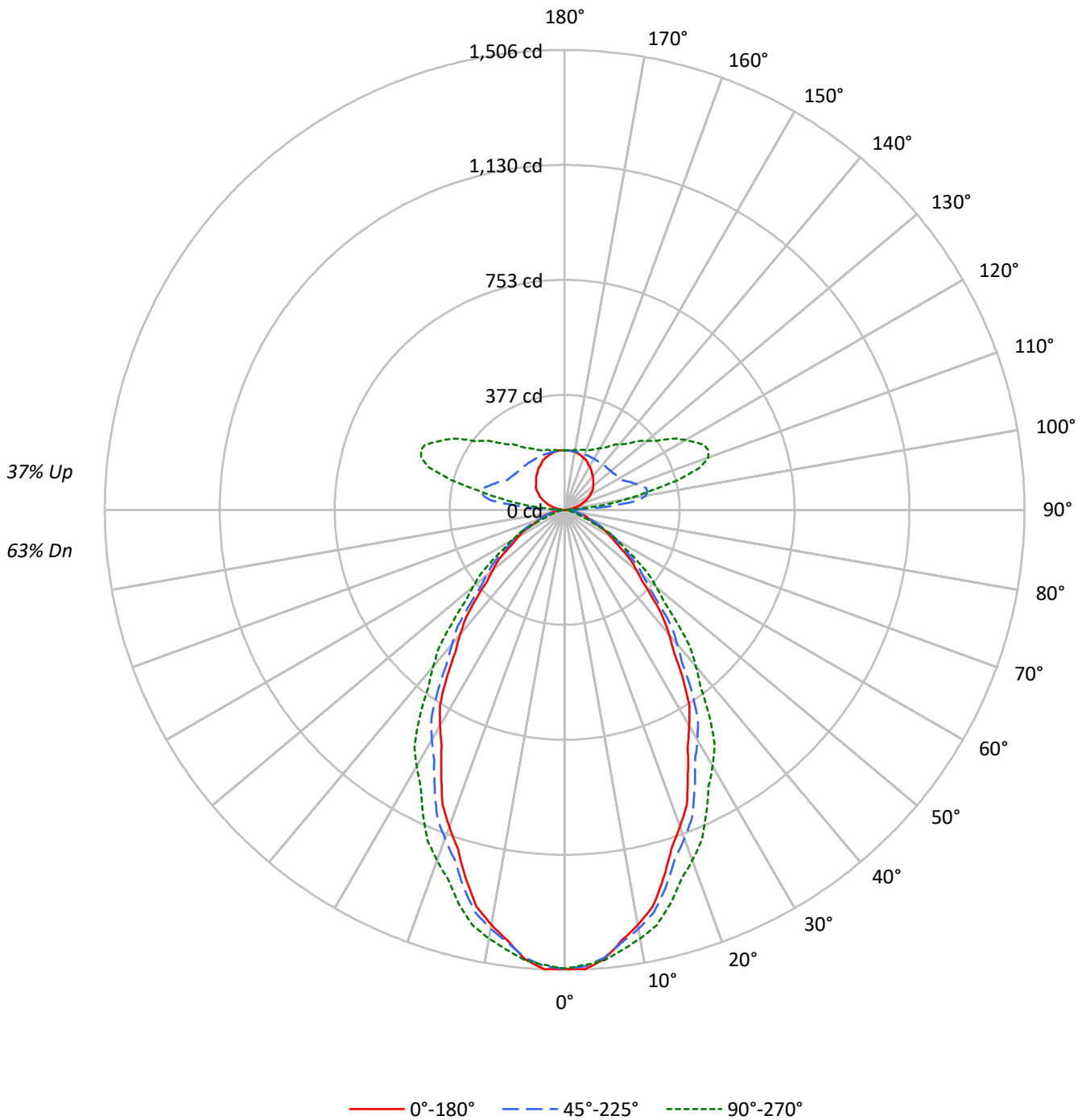
Lumens per Lamp: N/A
Luminaire Lumens: 3455.4 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	68	68	68	63
1	102	98	95	92	96	93	90	87	82	80	78	72	70	69	63	62	61	56
2	94	88	82	78	88	83	78	74	73	70	67	65	62	60	57	55	53	50
3	87	78	72	67	82	74	68	64	66	62	58	59	55	53	52	49	47	44
4	81	71	63	58	76	67	60	55	60	55	51	54	50	46	48	45	42	39
5	75	64	56	51	70	61	54	49	55	49	45	49	45	41	44	40	38	35
6	69	58	50	45	65	55	48	43	50	44	40	45	41	37	40	37	34	32
7	65	53	46	40	61	51	44	39	46	40	36	41	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	36	32	39	34	30	36	31	28	32	29	26	24
10	53	42	35	30	50	40	34	29	36	31	28	33	29	26	30	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9241	9241	9241
5°	9126	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7228	7499	7996
25°	6483	6836	7449
30°	5796	6175	6883
35°	5069	5435	6212
40°	4266	4605	5378
45°	3521	3825	4490
50°	2940	3205	3741
55°	2495	2750	3089
60°	2133	2384	2465
65°	1698	2006	1592
70°	1505	1565	973
75°	1395	1269	596
80°	1286	1169	514
85°	1164	1073	416



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.8	4.0
10°-20°	358.4	10.4
20°-30°	464.3	13.4
30°-40°	454.6	13.2
40°-50°	348.0	10.1
50°-60°	231.9	6.7
60°-70°	126.5	3.7
70°-80°	52.7	1.5
80°-90°	16.0	0.5
90°-100°	95.1	2.8
100°-110°	250.1	7.2
110°-120°	259.3	7.5
120°-130°	208.0	6.0
130°-140°	163.2	4.7
140°-150°	125.3	3.6
150°-160°	90.2	2.6
160°-170°	55.2	1.6
170°-180°	18.6	0.5
0°-30°	960.5	27.8
0°-40°	1415.2	41.0
0°-60°	1995.1	57.7
0°-90°	2190.3	63.4
90°-120°	604.6	17.5
90°-150°	1101.1	31.9
90°-180°	1265.0	36.6
0°-180°	3455.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1502	1502	1502	1502	1502	
5°	1478	1463	1473	1476	1481	137
15°	1250	1245	1279	1314	1336	349
25°	955	958	1007	1051	1098	439
35°	675	678	724	772	827	420
45°	405	412	440	473	516	316
55°	233	242	256	266	288	211
65°	117	126	138	120	109	121
75°	59	59	53	37	25	63
85°	16	16	15	10	6	18
90°	1	4	10	5	5	2
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	



TEST NUMBER: P518993

CATALOG NUMBER: SQ4-WB-025U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1502.4	1502.4	1502.4	1502.4	1502.4
2.5°	1506.1	1492.7	1496.1	1496.0	1491.8
5°	1478.0	1463.2	1472.7	1476.1	1481.3
7.5°	1423.2	1411.9	1429.3	1442.2	1452.7
10°	1380.4	1370.8	1393.0	1411.7	1425.3
12.5°	1330.9	1322.7	1350.2	1375.4	1393.1
15°	1249.9	1245.4	1278.9	1313.7	1336.3
17.5°	1163.3	1161.1	1199.5	1240.1	1269.0
20°	1104.2	1103.6	1145.7	1188.0	1221.6
22.5°	1044.6	1046.0	1090.4	1134.4	1172.5
25°	955.2	957.8	1007.3	1051.2	1097.6
27.5°	872.6	873.7	924.9	971.3	1020.8
30°	816.1	819.4	869.5	917.5	969.1
32.5°	759.7	763.4	812.6	862.2	914.8
35°	675.1	678.3	723.8	772.5	827.3
37.5°	587.8	592.2	632.6	678.7	732.5
40°	531.3	537.8	573.5	616.9	669.8
42.5°	477.0	485.0	518.2	559.3	607.0
45°	404.8	412.5	439.7	473.0	516.2
47.5°	342.5	351.4	372.3	401.0	437.9
50°	307.2	315.6	334.9	356.1	390.9
52.5°	276.1	284.5	301.7	318.0	347.7
55°	232.7	242.4	256.4	266.2	288.1
57.5°	197.1	206.4	217.5	221.9	235.2
60°	173.4	183.7	193.8	193.3	200.4
62.5°	151.8	160.5	170.6	163.6	164.0
65°	116.7	126.4	137.8	120.4	109.4
67.5°	94.3	96.3	108.1	84.0	70.9
70°	83.7	83.7	87.0	65.0	54.1
72.5°	73.7	73.7	70.7	52.9	41.4
75°	58.7	58.7	53.4	36.7	25.1
77.5°	45.2	44.7	40.9	27.3	18.2
80°	36.3	36.3	33.0	21.6	14.5
82.5°	28.3	28.3	25.6	16.9	10.8
85°	16.5	16.5	15.2	9.8	5.9
87.5°	6.1	6.5	7.3	4.2	3.6
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



TEST NUMBER: P518993

CATALOG NUMBER: SQ4-WB-025U-050D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)