

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: P519273

Luminaire Tested: **SQ4-WB-0U-050D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519273
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

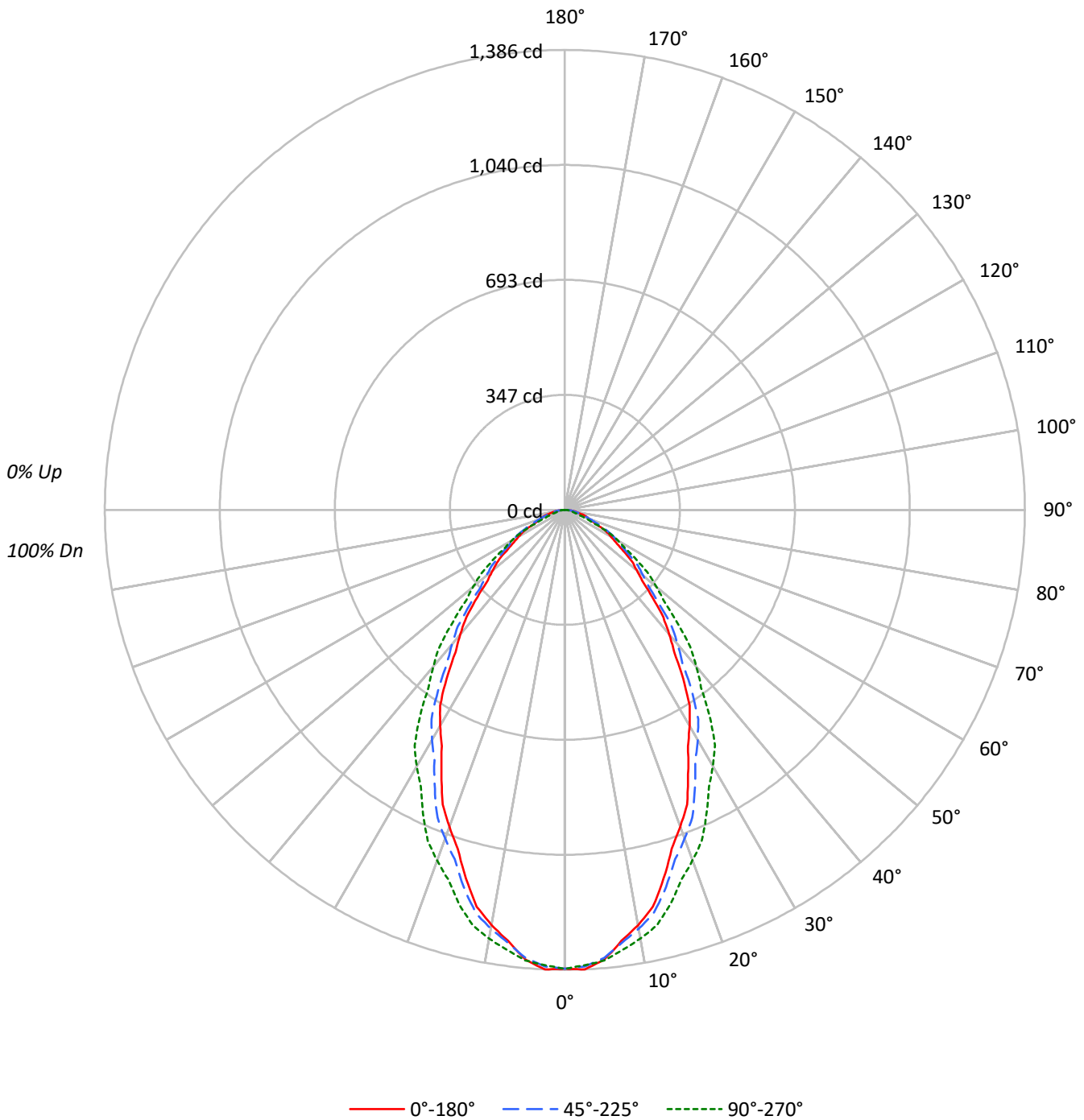
Lumens per Lamp: N/A
Luminaire Lumens: 2015.2 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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	6.3
10°-20°	329.9	16.4
20°-30°	427.4	21.2
30°-40°	418.5	20.8
40°-50°	320.3	15.9
50°-60°	213.5	10.6
60°-70°	116.5	5.8
70°-80°	48.5	2.4
80°-90°	13.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	884.2	43.9
0°-40°	1302.7	64.6
0°-60°	1836.5	91.1
0°-90°	2015.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.2	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°	0	0	0	0	0	



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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°	5.3	5.3	4.9	2.9	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)