

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: P519282

Luminaire Tested: **SQ4-WB-0U-050D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519282
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

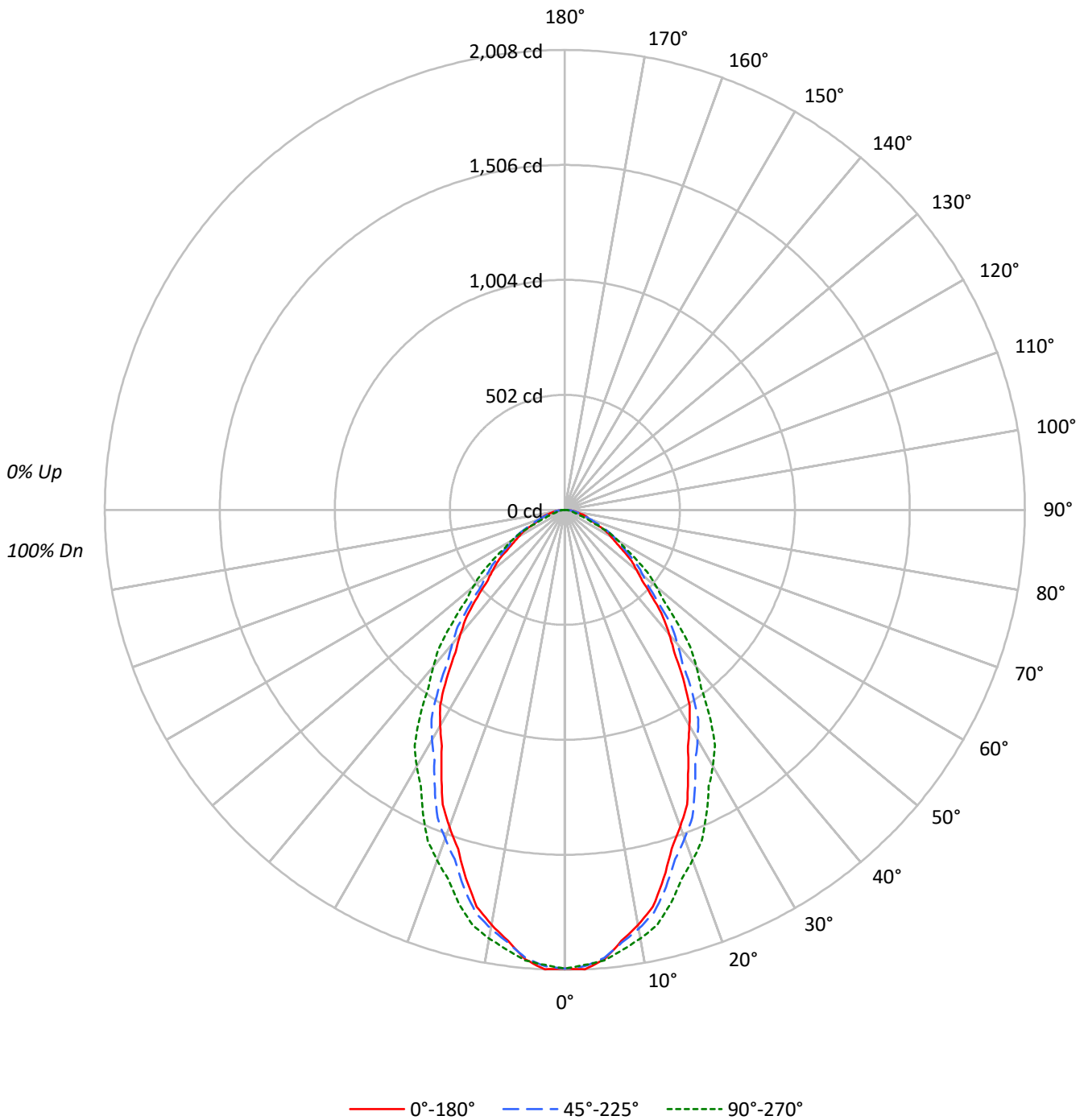
Lumens per Lamp: N/A
Luminaire Lumens: 2919.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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°	9241	9241	9241
5°	9126	9093	9146
10°	8622	8700	8902
15°	7959	8144	8509
20°	7228	7500	7996
25°	6483	6836	7449
30°	5797	6176	6883
35°	5069	5435	6212
40°	4267	4605	5378
45°	3521	3825	4490
50°	2940	3204	3741
55°	2496	2750	3089
60°	2133	2384	2465
65°	1698	2005	1593
70°	1505	1565	972
75°	1394	1269	595
80°	1283	1166	513
85°	1164	1069	418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	6.3
10°-20°	477.9	16.4
20°-30°	619.0	21.2
30°-40°	606.2	20.8
40°-50°	464.0	15.9
50°-60°	309.2	10.6
60°-70°	168.7	5.8
70°-80°	70.3	2.4
80°-90°	19.9	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°	1280.7	43.9
0°-40°	1886.9	64.6
0°-60°	2660.1	91.1
0°-90°	2919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2003	2003	2003	2003	2003	
5°	1971	1951	1964	1968	1975	183
15°	1666	1660	1705	1752	1782	465
25°	1274	1277	1343	1402	1464	586
35°	900	904	965	1030	1103	560
45°	540	550	586	631	688	421
55°	310	323	342	355	384	281
65°	156	168	184	160	146	162
75°	78	78	71	49	33	84
85°	22	22	20	13	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2003.2	2003.2	2003.2	2003.2	2003.2
2.5°	2008.1	1990.2	1994.7	1994.6	1989.1
5°	1970.7	1950.9	1963.6	1968.2	1975.1
7.5°	1897.5	1882.6	1905.8	1923.0	1936.9
10°	1840.6	1827.7	1857.3	1882.3	1900.3
12.5°	1774.5	1763.6	1800.3	1833.9	1857.5
15°	1666.5	1660.5	1705.2	1751.6	1781.7
17.5°	1551.0	1548.1	1599.4	1653.5	1692.0
20°	1472.3	1471.4	1527.7	1584.1	1628.7
22.5°	1392.8	1394.7	1453.8	1512.5	1563.3
25°	1273.6	1277.1	1343.1	1401.6	1463.5
27.5°	1163.4	1165.0	1233.2	1295.0	1361.0
30°	1088.2	1092.5	1159.4	1223.3	1292.1
32.5°	1012.9	1017.9	1083.4	1149.5	1219.7
35°	900.1	904.4	965.1	1030.1	1103.1
37.5°	783.7	789.5	843.5	904.9	976.7
40°	708.5	717.0	764.7	822.6	893.0
42.5°	636.0	646.7	690.9	745.8	809.4
45°	539.7	550.0	586.3	630.7	688.2
47.5°	456.7	468.6	496.4	534.7	583.8
50°	409.6	420.8	446.5	474.8	521.2
52.5°	368.1	379.3	402.2	424.0	463.6
55°	310.3	323.2	341.9	354.9	384.1
57.5°	262.8	275.2	290.1	295.9	313.6
60°	231.2	244.9	258.4	257.8	267.2
62.5°	202.3	214.0	227.5	218.2	218.7
65°	155.6	168.5	183.7	160.5	145.9
67.5°	125.7	128.4	144.2	111.9	94.6
70°	111.6	111.6	116.0	86.7	72.1
72.5°	98.3	98.3	94.2	70.5	55.2
75°	78.2	78.2	71.2	48.9	33.4
77.5°	60.3	59.6	54.5	36.5	24.3
80°	48.3	48.3	43.9	28.8	19.3
82.5°	37.8	37.8	34.1	22.5	14.4
85°	22.0	22.0	20.2	13.1	7.9
87.5°	7.7	7.7	7.0	4.2	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)