

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: P519269

Luminaire Tested: **SQ4-WB-0U-050D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519269
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

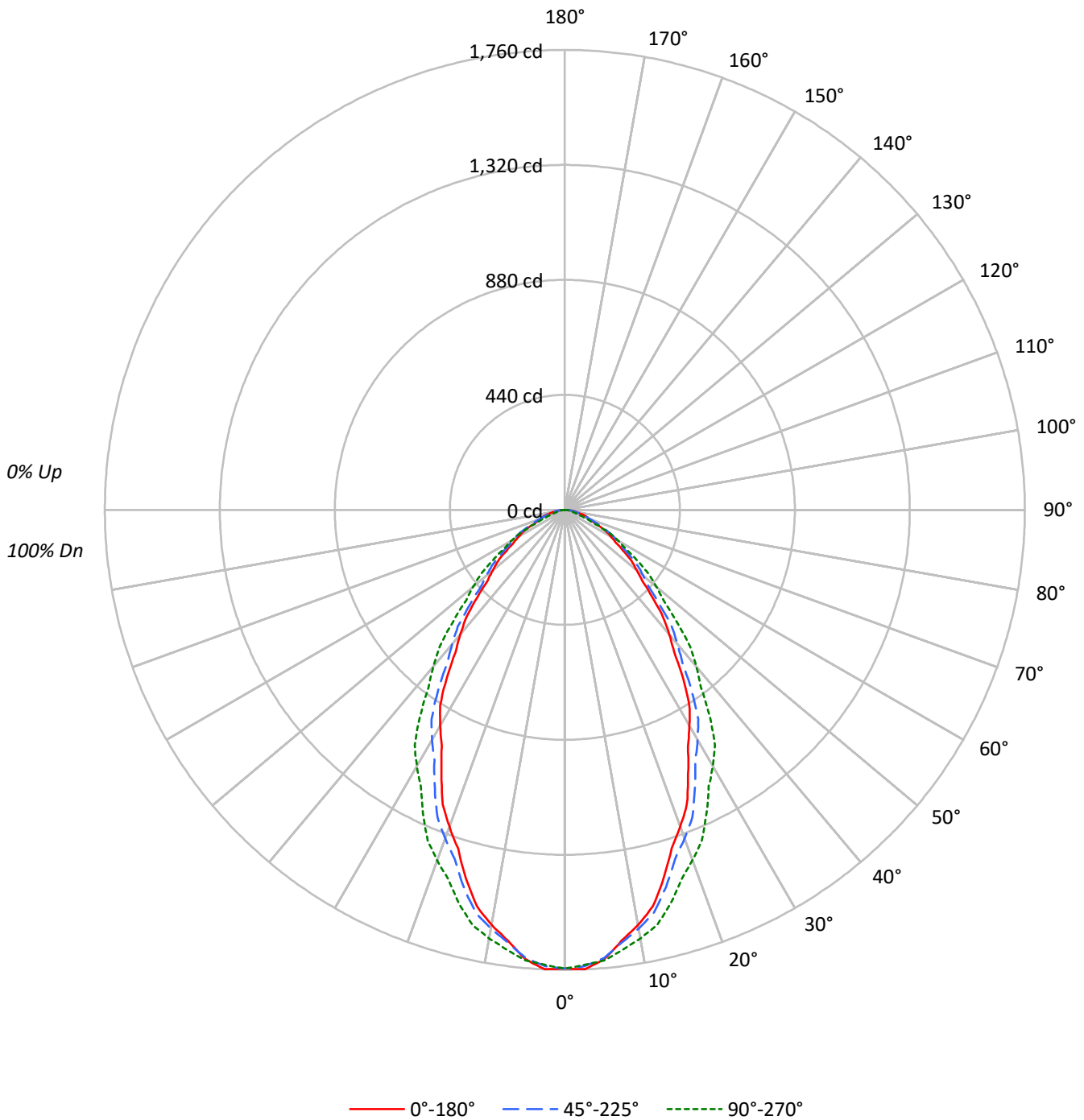
Lumens per Lamp: N/A
Luminaire Lumens: 2558.0 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

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°	10797	10797	10797
5°	10662	10624	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8763	9342
25°	7575	7987	8704
30°	6773	7216	8042
35°	5922	6350	7259
40°	4985	5380	6284
45°	4114	4469	5246
50°	3434	3744	4371
55°	2916	3213	3610
60°	2492	2786	2881
65°	1984	2343	1861
70°	1759	1829	1137
75°	1630	1483	696
80°	1502	1364	599
85°	1362	1249	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	6.3
10°-20°	418.8	16.4
20°-30°	542.5	21.2
30°-40°	531.2	20.8
40°-50°	406.6	15.9
50°-60°	270.9	10.6
60°-70°	147.9	5.8
70°-80°	61.6	2.4
80°-90°	17.5	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°	1122.3	43.9
0°-40°	1653.5	64.6
0°-60°	2331.0	91.1
0°-90°	2558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1727	1710	1721	1725	1731	161
15°	1460	1455	1494	1535	1561	408
25°	1116	1119	1177	1228	1282	513
35°	789	792	846	903	967	490
45°	473	482	514	553	603	369
55°	272	283	300	311	337	247
65°	136	148	161	141	128	142
75°	69	69	62	43	29	73
85°	19	19	18	12	7	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.4	1755.4	1755.4	1755.4	1755.4
2.5°	1759.7	1744.0	1748.0	1747.9	1743.1
5°	1726.9	1709.6	1720.7	1724.7	1730.8
7.5°	1662.8	1649.7	1670.1	1685.1	1697.3
10°	1612.9	1601.6	1627.5	1649.5	1665.3
12.5°	1555.0	1545.5	1577.6	1607.1	1627.7
15°	1460.4	1455.1	1494.3	1534.9	1561.3
17.5°	1359.2	1356.6	1401.5	1449.0	1482.7
20°	1290.2	1289.4	1338.7	1388.1	1427.3
22.5°	1220.5	1222.2	1274.0	1325.4	1370.0
25°	1116.1	1119.1	1176.9	1228.2	1282.5
27.5°	1019.5	1020.9	1080.7	1134.8	1192.7
30°	953.6	957.3	1016.0	1072.0	1132.3
32.5°	887.6	892.0	949.4	1007.3	1068.8
35°	788.7	792.5	845.7	902.6	966.7
37.5°	686.8	691.9	739.1	792.9	855.9
40°	620.8	628.4	670.1	720.8	782.6
42.5°	557.4	566.7	605.4	653.5	709.2
45°	472.9	482.0	513.8	552.6	603.1
47.5°	400.2	410.6	435.0	468.5	511.6
50°	358.9	368.7	391.3	416.1	456.8
52.5°	322.6	332.4	352.5	371.6	406.2
55°	271.9	283.2	299.6	311.0	336.6
57.5°	230.3	241.1	254.2	259.3	274.8
60°	202.6	214.6	226.5	225.9	234.2
62.5°	177.3	187.6	199.3	191.2	191.6
65°	136.3	147.6	161.0	140.7	127.9
67.5°	110.1	112.6	126.3	98.1	82.9
70°	97.8	97.8	101.7	76.0	63.2
72.5°	86.1	86.1	82.6	61.8	48.4
75°	68.6	68.6	62.4	42.8	29.3
77.5°	52.8	52.2	47.8	32.0	21.3
80°	42.4	42.4	38.5	25.2	16.9
82.5°	33.1	33.1	29.9	19.7	12.6
85°	19.3	19.3	17.7	11.5	6.9
87.5°	6.8	6.8	6.2	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)