

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: P523808

Luminaire Tested: **SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523808
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.5 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

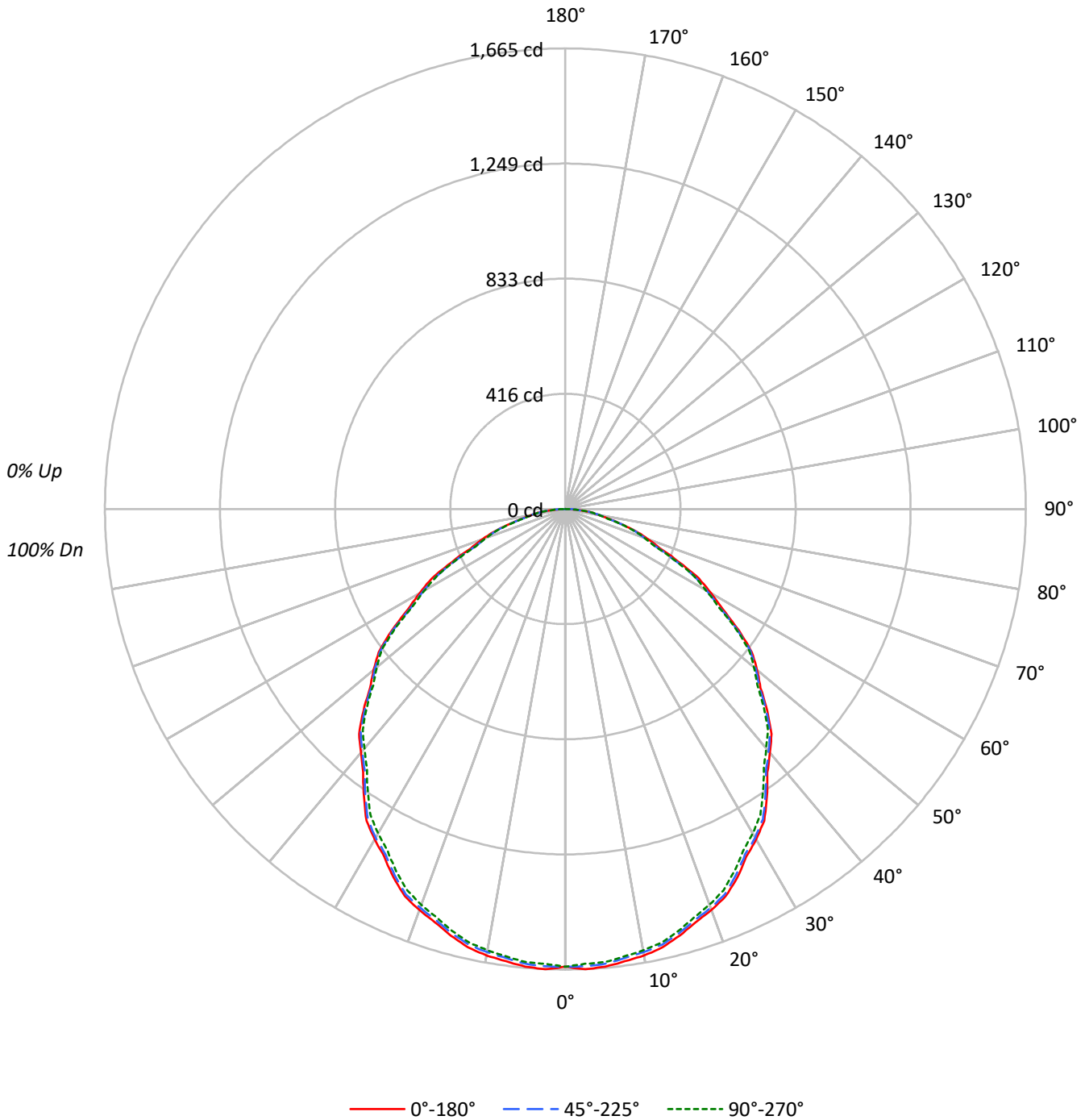
Input Watts (W): 42.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46				
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15268	15268	15268
5°	15380	15286	15232
10°	15354	15245	15177
15°	15252	15169	15086
20°	15152	15066	14952
25°	14972	14868	14720
30°	14694	14617	14431
35°	14310	14212	14032
40°	13852	13765	13607
45°	13473	13379	13246
50°	12990	12907	12782
55°	12318	12154	12061
60°	11214	10892	10839
65°	9879	9468	9435
70°	8530	8176	8176
75°	7340	7236	7133
80°	6471	6551	6397
85°	5071	5526	5526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.7
10°-20°	446.8	10.5
20°-30°	669.3	15.8
30°-40°	785.0	18.5
40°-50°	787.4	18.6
50°-60°	671.8	15.9
60°-70°	438.1	10.3
70°-80°	219.8	5.2
80°-90°	60.8	1.4
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°	1272.5	30.0
0°-40°	2057.5	48.6
0°-60°	3516.8	83.0
0°-90°	4235.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1655	1655	1655	1655	1655	
5°	1661	1645	1650	1645	1645	158
15°	1597	1581	1588	1582	1579	451
25°	1471	1454	1460	1447	1446	676
35°	1270	1258	1262	1247	1246	794
45°	1033	1026	1025	1015	1015	795
55°	766	763	756	751	750	681
65°	452	444	434	431	432	452
75°	206	206	203	202	200	223
85°	48	52	52	52	52	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1654.8	1654.8	1654.8	1654.8	1654.8
2.5°	1665.3	1651.7	1654.8	1652.4	1645.6
5°	1660.6	1645.0	1650.5	1644.7	1644.7
7.5°	1649.3	1632.3	1637.7	1631.9	1631.6
10°	1638.9	1621.9	1627.3	1621.5	1620.0
12.5°	1623.8	1606.8	1613.4	1606.4	1606.1
15°	1596.8	1581.2	1588.1	1582.3	1579.4
17.5°	1566.4	1549.4	1557.7	1549.5	1548.4
20°	1543.2	1526.2	1534.5	1522.9	1522.9
22.5°	1515.3	1498.3	1507.8	1492.7	1492.7
25°	1470.7	1453.6	1460.5	1447.4	1446.0
27.5°	1417.6	1400.8	1408.0	1393.2	1392.9
30°	1379.3	1363.7	1372.0	1356.0	1354.6
32.5°	1337.5	1323.0	1329.1	1313.1	1311.7
35°	1270.5	1257.7	1261.8	1247.3	1245.8
37.5°	1200.0	1187.0	1191.6	1179.1	1178.6
40°	1150.1	1141.6	1142.9	1132.7	1129.8
42.5°	1103.7	1094.1	1095.3	1085.1	1084.6
45°	1032.6	1025.6	1025.4	1015.2	1015.2
47.5°	957.2	951.8	950.3	941.8	941.6
50°	905.0	900.8	899.2	891.9	890.5
52.5°	850.5	848.5	843.5	837.4	837.1
55°	765.8	762.9	755.6	751.2	749.8
57.5°	673.8	668.2	659.9	653.6	654.7
60°	607.7	602.0	590.3	587.4	587.4
62.5°	543.9	537.1	525.3	521.3	523.6
65°	452.5	444.0	433.7	430.8	432.2
67.5°	369.5	361.9	350.7	350.7	349.5
70°	316.2	311.9	303.1	303.1	303.1
72.5°	268.6	266.6	260.2	260.2	259.0
75°	205.9	205.9	203.0	201.6	200.1
77.5°	154.3	154.9	153.4	151.9	149.4
80°	121.8	124.7	123.3	121.8	120.4
82.5°	91.7	94.5	94.3	91.7	91.4
85°	47.9	52.1	52.2	52.2	52.2
87.5°	12.8	17.3	18.6	18.6	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)