

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: P563477

Luminaire Tested: **SQ4-PP3-0U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563477
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-0U-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
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: 4653.6 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

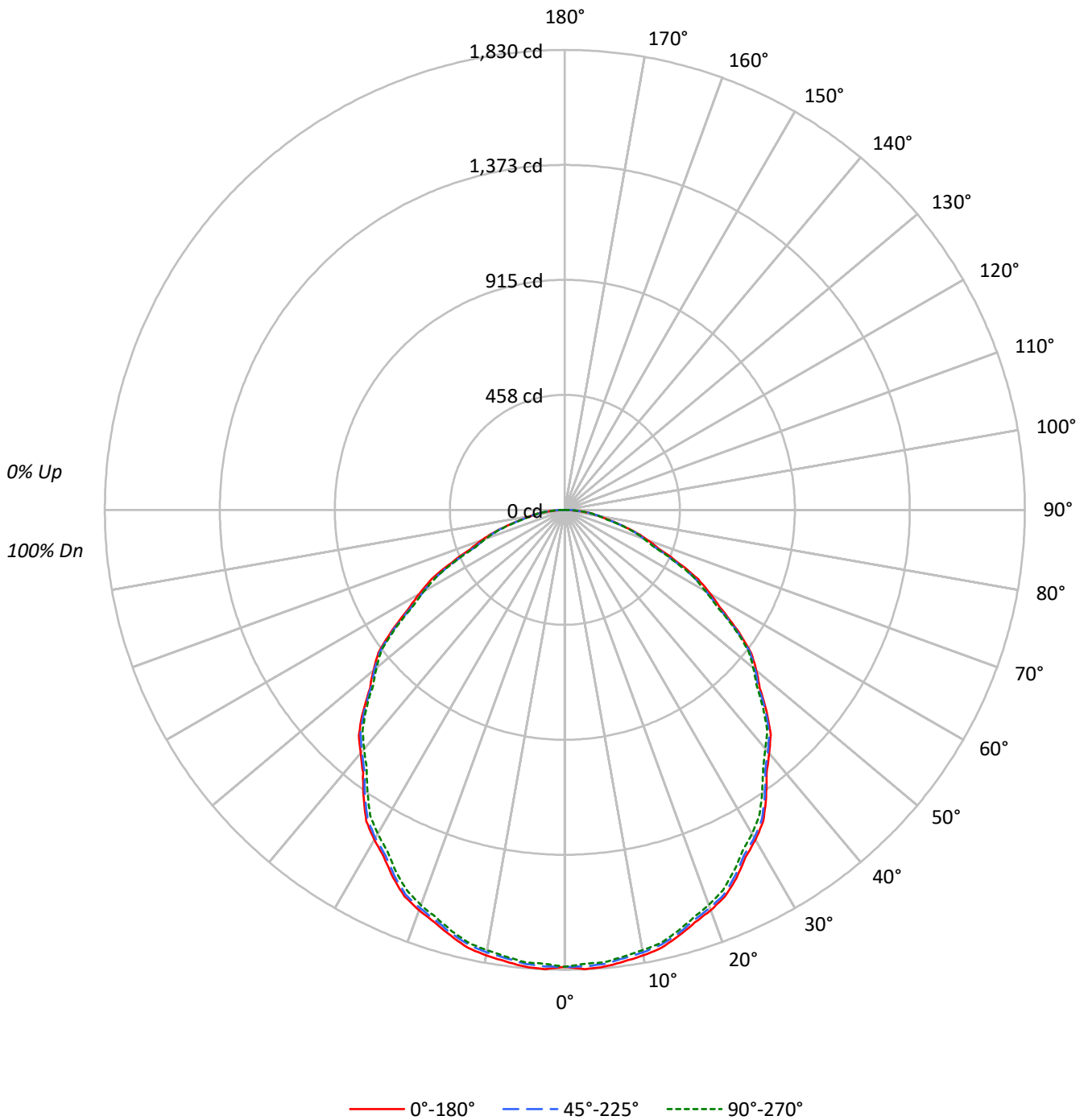
Input Watts (W): 53.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	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°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5583	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4852
50°	4758	4727	4681
55°	4511	4451	4417
60°	4107	3989	3970
65°	3618	3467	3456
70°	3124	2994	2994
75°	2689	2651	2613
80°	2371	2398	2343
85°	1856	2025	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	3.7
10°-20°	490.9	10.5
20°-30°	735.3	15.8
30°-40°	862.5	18.5
40°-50°	865.2	18.6
50°-60°	738.1	15.9
60°-70°	481.4	10.3
70°-80°	241.5	5.2
80°-90°	66.8	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°	1398.2	30.0
0°-40°	2260.6	48.6
0°-60°	3863.9	83.0
0°-90°	4653.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4653.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1825	1807	1813	1807	1807	173
15°	1754	1737	1745	1738	1735	495
25°	1616	1597	1605	1590	1589	743
35°	1396	1382	1386	1370	1369	872
45°	1135	1127	1127	1116	1116	874
55°	841	838	830	825	824	748
65°	497	488	476	473	475	496
75°	226	226	223	222	220	246
85°	53	57	57	57	57	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1829.7	1814.7	1818.2	1815.5	1808.0
5°	1824.6	1807.4	1813.4	1807.0	1807.0
7.5°	1812.1	1793.5	1799.4	1793.0	1792.7
10°	1800.7	1782.0	1787.9	1781.5	1780.0
12.5°	1784.1	1765.4	1772.6	1765.0	1764.7
15°	1754.5	1737.3	1744.9	1738.5	1735.3
17.5°	1721.0	1702.3	1711.4	1702.5	1701.2
20°	1695.5	1676.8	1685.9	1673.2	1673.2
22.5°	1664.9	1646.2	1656.6	1640.0	1640.0
25°	1615.8	1597.1	1604.7	1590.3	1588.7
27.5°	1557.5	1539.1	1547.0	1530.7	1530.4
30°	1515.4	1498.3	1507.5	1489.9	1488.3
32.5°	1469.5	1453.6	1460.3	1442.7	1441.2
35°	1395.9	1381.9	1386.4	1370.4	1368.8
37.5°	1318.5	1304.1	1309.2	1295.5	1294.9
40°	1263.7	1254.3	1255.7	1244.5	1241.4
42.5°	1212.7	1202.1	1203.4	1192.3	1191.6
45°	1134.6	1126.8	1126.6	1115.5	1115.5
47.5°	1051.7	1045.8	1044.1	1034.8	1034.5
50°	994.4	989.7	988.0	980.0	978.4
52.5°	934.4	932.3	926.8	920.1	919.8
55°	841.4	838.3	830.2	825.4	823.8
57.5°	740.3	734.1	725.1	718.1	719.3
60°	667.7	661.5	648.6	645.4	645.4
62.5°	597.6	590.1	577.2	572.8	575.3
65°	497.2	487.8	476.5	473.3	474.9
67.5°	406.0	397.6	385.3	385.3	384.0
70°	347.4	342.7	333.0	333.0	333.0
72.5°	295.1	292.9	285.9	285.8	284.6
75°	226.3	226.3	223.1	221.5	219.9
77.5°	169.6	170.2	168.6	166.9	164.1
80°	133.9	137.0	135.4	133.8	132.3
82.5°	100.7	103.8	103.6	100.7	100.4
85°	52.6	57.3	57.4	57.4	57.4
87.5°	14.0	19.0	20.4	20.4	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)