

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

Brand: CORELITE

Report Number: P688830

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3941.7 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

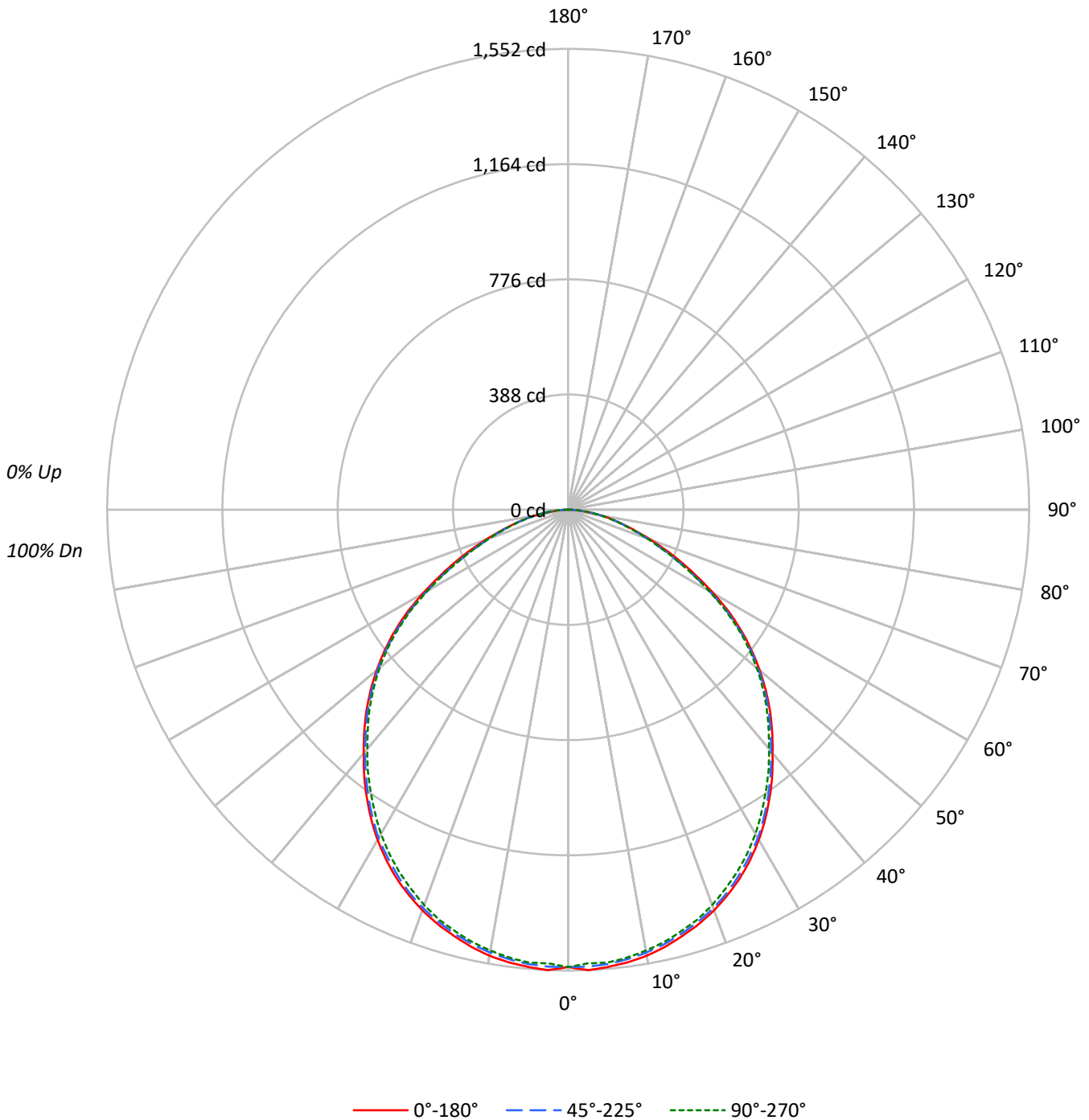
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	50	62	55	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°	14827	14827	14827
5°	14936	14845	14793
10°	14911	14806	14739
15°	14812	14731	14650
20°	14714	14631	14521
25°	14539	14439	14296
30°	14271	14195	14015
35°	13897	13801	13627
40°	13452	13367	13215
45°	13085	12993	12865
50°	12616	12535	12413
55°	11962	11803	11712
60°	10890	10579	10527
65°	9593	9194	9162
70°	8284	7941	7941
75°	7131	7030	6930
80°	6287	6359	6209
85°	4916	5368	5368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.7
10°-20°	416.1	10.6
20°-30°	623.2	15.8
30°-40°	730.9	18.5
40°-50°	733.2	18.6
50°-60°	626.1	15.9
60°-70°	406.9	10.3
70°-80°	203.8	5.2
80°-90°	55.9	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°	1185.0	30.1
0°-40°	1915.9	48.6
0°-60°	3275.2	83.1
0°-90°	3941.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3941.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1546	1531	1536	1531	1531	147
15°	1486	1471	1478	1473	1470	420
25°	1369	1352	1359	1347	1346	630
35°	1182	1170	1174	1161	1160	739
45°	961	954	954	945	945	740
55°	713	710	703	699	698	634
65°	421	413	404	401	402	420
75°	192	192	189	188	186	207
85°	44	49	49	49	49	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.1	1540.1	1540.1	1540.1	1540.1
2.5°	1552.3	1536.1	1540.1	1537.4	1529.3
5°	1545.5	1530.7	1536.1	1530.7	1530.7
7.5°	1537.4	1521.2	1526.6	1521.2	1521.2
10°	1525.3	1509.1	1514.5	1509.1	1507.7
12.5°	1507.7	1491.5	1498.3	1491.5	1491.5
15°	1486.1	1471.3	1478.0	1472.6	1469.9
17.5°	1463.2	1447.0	1455.1	1448.3	1447.0
20°	1436.2	1420.0	1428.1	1417.3	1417.3
22.5°	1403.8	1387.6	1397.0	1382.2	1382.2
25°	1368.7	1352.5	1359.3	1347.1	1345.8
27.5°	1328.2	1312.0	1318.8	1305.3	1305.3
30°	1283.7	1268.8	1276.9	1262.1	1260.7
32.5°	1235.1	1221.6	1227.0	1212.1	1210.8
35°	1182.4	1170.3	1174.3	1160.8	1159.5
37.5°	1128.4	1114.9	1120.3	1108.2	1108.2
40°	1070.4	1062.3	1063.6	1054.2	1051.5
42.5°	1016.4	1007.0	1008.3	998.9	998.9
45°	961.1	954.3	954.3	944.9	944.9
47.5°	903.0	897.6	896.3	888.2	888.2
50°	842.3	838.2	836.9	830.1	828.8
52.5°	778.8	777.5	772.1	766.7	766.7
55°	712.7	710.0	703.2	699.2	697.8
57.5°	642.5	637.1	630.4	623.6	625.0
60°	565.6	560.2	549.4	546.7	546.7
62.5°	491.3	484.6	473.8	469.7	472.4
65°	421.1	413.0	403.6	400.9	402.2
67.5°	356.3	348.2	337.5	337.5	336.1
70°	294.3	290.2	282.1	282.1	282.1
72.5°	238.9	237.6	232.2	232.2	230.8
75°	191.7	191.7	189.0	187.6	186.3
77.5°	151.2	151.2	149.8	148.5	145.8
80°	113.4	116.1	114.7	113.4	112.0
82.5°	78.3	81.0	81.0	78.3	78.3
85°	44.5	48.6	48.6	48.6	48.6
87.5°	14.8	20.2	21.6	21.6	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)