

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: P688836

Luminaire Tested: SQ4R-PP3-100D-93050-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688836
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-93050-1-UNV-STD-W-4_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.9 lumens
Efficiency: N/A
Efficacy: 86.6 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

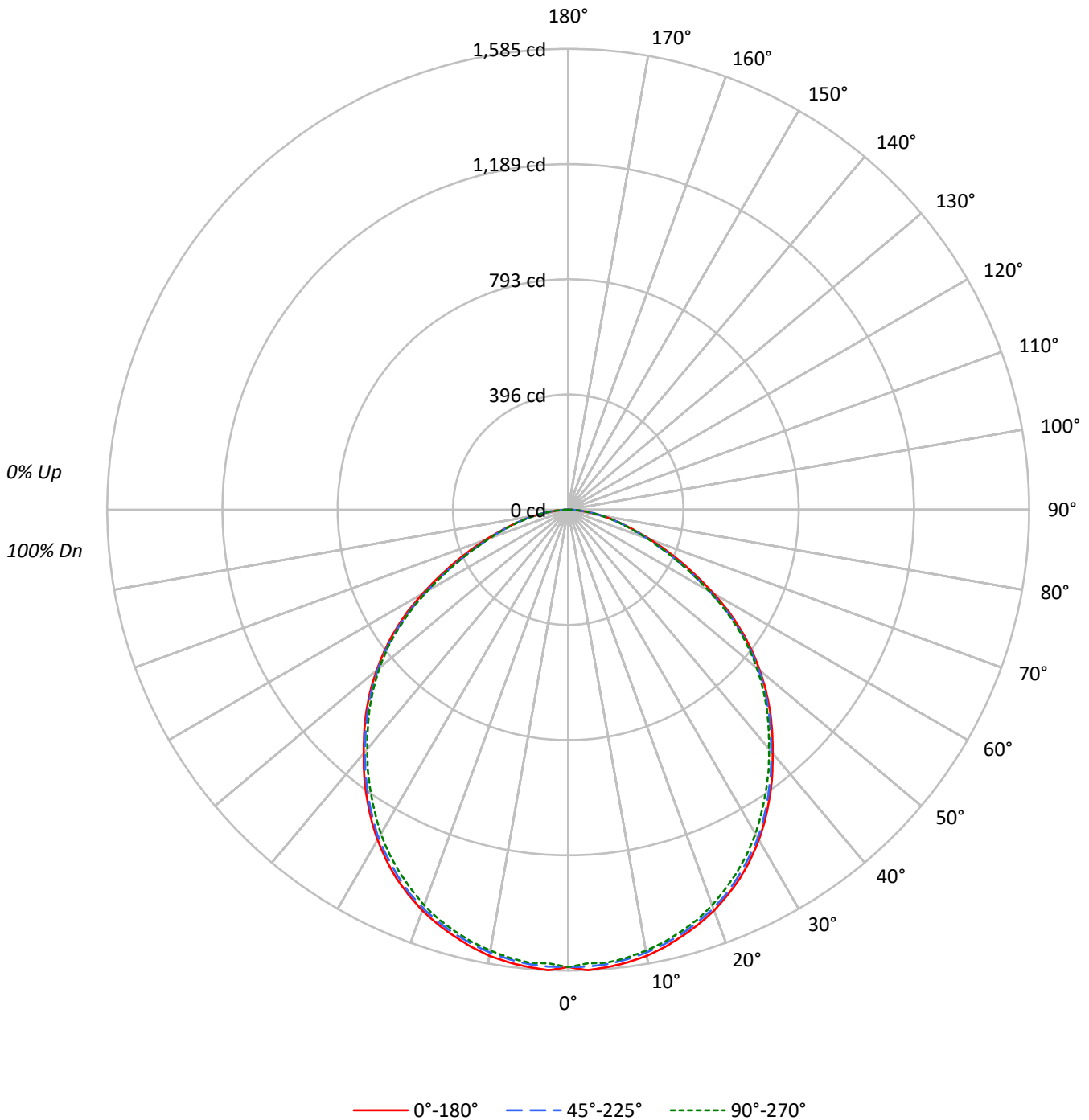
Input Watts (W): 46.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15144	15144	15144
5°	15255	15162	15109
10°	15229	15121	15054
15°	15129	15046	14963
20°	15029	14944	14831
25°	14849	14747	14601
30°	14575	14498	14314
35°	14194	14096	13918
40°	13739	13653	13496
45°	13365	13271	13139
50°	12885	12801	12678
55°	12218	12056	11962
60°	11122	10804	10750
65°	9798	9390	9358
70°	8459	8110	8110
75°	7283	7179	7075
80°	6420	6498	6343
85°	5026	5479	5479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13365 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	3.7
10°-20°	425.0	10.6
20°-30°	636.5	15.8
30°-40°	746.5	18.5
40°-50°	748.9	18.6
50°-60°	639.4	15.9
60°-70°	415.6	10.3
70°-80°	208.1	5.2
80°-90°	57.1	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°	1210.3	30.1
0°-40°	1956.9	48.6
0°-60°	3345.1	83.1
0°-90°	4025.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1573	1573	1573	1573	1573	
5°	1578	1563	1569	1563	1563	150
15°	1518	1503	1510	1504	1501	428
25°	1398	1381	1388	1376	1374	643
35°	1208	1195	1199	1186	1184	755
45°	982	975	975	965	965	756
55°	728	725	718	714	713	648
65°	430	422	412	410	411	429
75°	196	196	193	192	190	211
85°	46	50	50	50	50	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.0	1573.0	1573.0	1573.0	1573.0
2.5°	1585.4	1568.9	1573.0	1570.2	1562.0
5°	1578.5	1563.4	1568.9	1563.4	1563.4
7.5°	1570.2	1553.7	1559.2	1553.7	1553.7
10°	1557.8	1541.3	1546.8	1541.3	1539.9
12.5°	1539.9	1523.4	1530.3	1523.4	1523.4
15°	1517.9	1502.7	1509.6	1504.1	1501.3
17.5°	1494.4	1477.9	1486.2	1479.3	1477.9
20°	1466.9	1450.3	1458.6	1447.6	1447.6
22.5°	1433.8	1417.2	1426.9	1411.7	1411.7
25°	1397.9	1381.4	1388.3	1375.9	1374.5
27.5°	1356.6	1340.0	1346.9	1333.1	1333.1
30°	1311.1	1295.9	1304.2	1289.0	1287.6
32.5°	1261.4	1247.7	1253.2	1238.0	1236.6
35°	1207.7	1195.3	1199.4	1185.6	1184.2
37.5°	1152.5	1138.7	1144.3	1131.8	1131.8
40°	1093.2	1085.0	1086.4	1076.7	1073.9
42.5°	1038.1	1028.5	1029.8	1020.2	1020.2
45°	981.6	974.7	974.7	965.0	965.0
47.5°	922.3	916.8	915.4	907.1	907.1
50°	860.3	856.1	854.7	847.9	846.5
52.5°	795.5	794.1	788.6	783.1	783.1
55°	727.9	725.2	718.3	714.1	712.7
57.5°	656.2	650.7	643.8	636.9	638.3
60°	577.6	572.1	561.1	558.3	558.3
62.5°	501.8	494.9	483.9	479.8	482.5
65°	430.1	421.9	412.2	409.5	410.8
67.5°	364.0	355.7	344.7	344.7	343.3
70°	300.5	296.4	288.1	288.1	288.1
72.5°	244.0	242.6	237.1	237.1	235.7
75°	195.8	195.8	193.0	191.6	190.2
77.5°	154.4	154.4	153.0	151.6	148.9
80°	115.8	118.6	117.2	115.8	114.4
82.5°	80.0	82.7	82.7	80.0	80.0
85°	45.5	49.6	49.6	49.6	49.6
87.5°	15.2	20.7	22.1	22.1	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)