

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: P688557

Luminaire Tested: SQ4R-PP3-125D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688557
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-PP3-125D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3972.8 lumens
Efficiency: N/A
Efficacy: 80.3 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

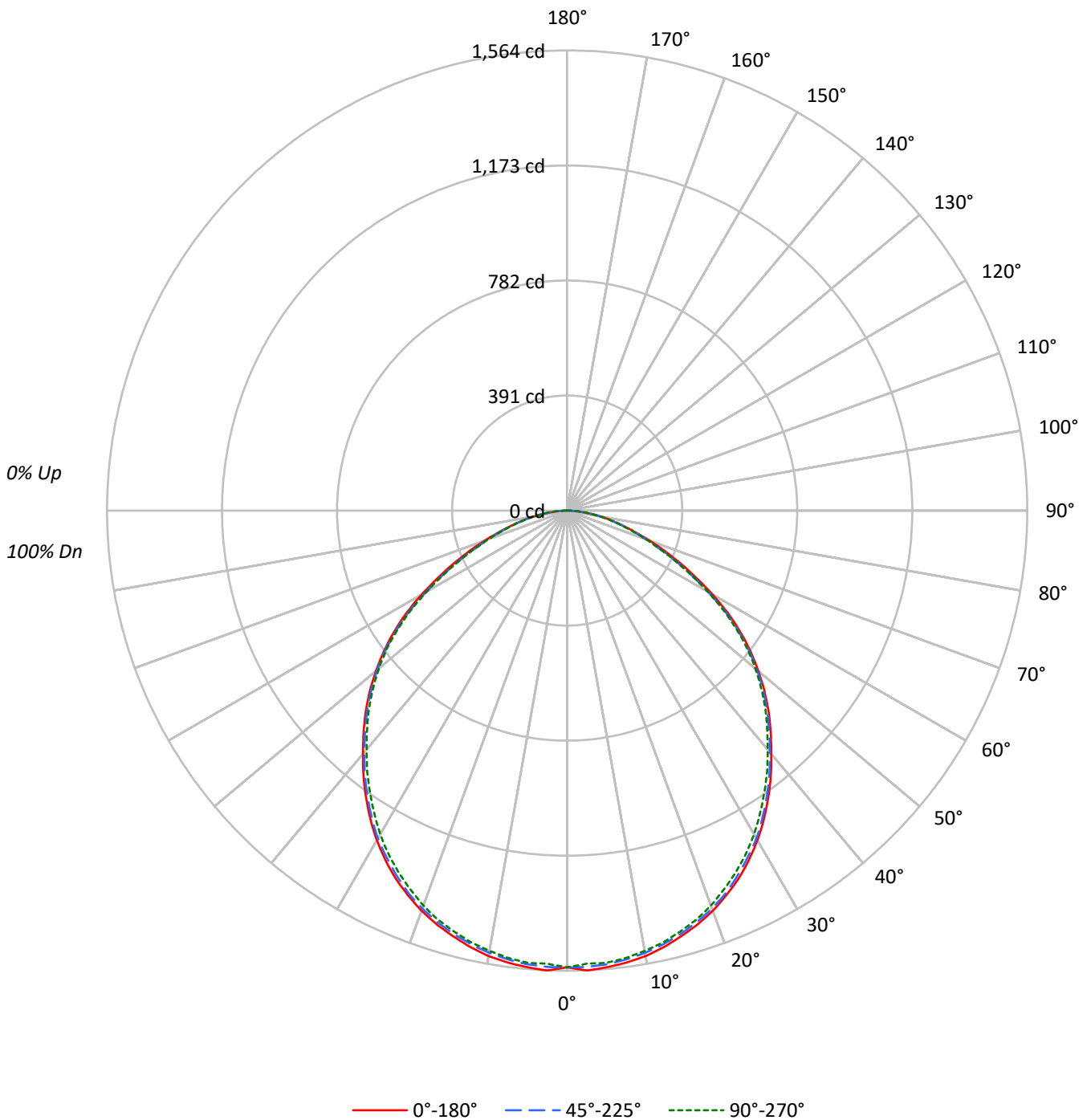
Input Watts (W): 49.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688557

CATALOG NUMBER: SQ4R-PP3-125D-930-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P688557

CATALOG NUMBER: SQ4R-PP3-125D-930-1-UNV-STD-W-4

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°	14945	14945	14945
5°	15054	14962	14909
10°	15028	14922	14855
15°	14929	14848	14766
20°	14830	14746	14635
25°	14654	14553	14408
30°	14383	14307	14125
35°	14006	13911	13734
40°	13558	13472	13319
45°	13188	13095	12966
50°	12714	12634	12511
55°	12056	11897	11805
60°	10975	10661	10609
65°	9670	9267	9235
70°	8349	8003	8003
75°	7186	7086	6982
80°	6337	6409	6259
85°	4960	5413	5413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13188 cd/sqm

TEST NUMBER: P688557

CATALOG NUMBER: SQ4R-PP3-125D-930-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.7
10°-20°	419.4	10.6
20°-30°	628.1	15.8
30°-40°	736.7	18.5
40°-50°	739.0	18.6
50°-60°	631.0	15.9
60°-70°	410.1	10.3
70°-80°	205.4	5.2
80°-90°	56.3	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°	1194.3	30.1
0°-40°	1931.0	48.6
0°-60°	3301.0	83.1
0°-90°	3972.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1558	1543	1548	1543	1543	148
15°	1498	1483	1490	1484	1482	423
25°	1380	1363	1370	1358	1356	635
35°	1192	1180	1184	1170	1169	745
45°	969	962	962	952	952	746
55°	718	716	709	705	703	639
65°	424	416	407	404	405	423
75°	193	193	190	189	188	209
85°	45	49	49	49	49	53
90°	0	0	0	0	0	

TEST NUMBER: P688557

CATALOG NUMBER: SQ4R-PP3-125D-930-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1564.5	1548.2	1552.3	1549.5	1541.4
5°	1557.7	1542.7	1548.2	1542.7	1542.7
7.5°	1549.5	1533.2	1538.6	1533.2	1533.2
10°	1537.3	1521.0	1526.4	1521.0	1519.6
12.5°	1519.6	1503.3	1510.1	1503.3	1503.3
15°	1497.8	1482.9	1489.7	1484.2	1481.5
17.5°	1474.7	1458.4	1466.5	1459.7	1458.4
20°	1447.5	1431.2	1439.3	1428.5	1428.5
22.5°	1414.8	1398.5	1408.0	1393.1	1393.1
25°	1379.5	1363.2	1370.0	1357.7	1356.4
27.5°	1338.7	1322.3	1329.1	1315.5	1315.5
30°	1293.8	1278.8	1287.0	1272.0	1270.6
32.5°	1244.8	1231.2	1236.6	1221.7	1220.3
35°	1191.7	1179.5	1183.6	1170.0	1168.6
37.5°	1137.3	1123.7	1129.2	1116.9	1116.9
40°	1078.8	1070.7	1072.0	1062.5	1059.8
42.5°	1024.4	1014.9	1016.2	1006.7	1006.7
45°	968.6	961.8	961.8	952.3	952.3
47.5°	910.1	904.7	903.3	895.2	895.2
50°	848.9	844.8	843.5	836.7	835.3
52.5°	785.0	783.6	778.2	772.7	772.7
55°	718.3	715.6	708.8	704.7	703.3
57.5°	647.6	642.1	635.3	628.5	629.9
60°	570.0	564.6	553.7	551.0	551.0
62.5°	495.2	488.4	477.5	473.4	476.2
65°	424.5	416.3	406.8	404.0	405.4
67.5°	359.2	351.0	340.1	340.1	338.7
70°	296.6	292.5	284.3	284.3	284.3
72.5°	240.8	239.4	234.0	234.0	232.6
75°	193.2	193.2	190.5	189.1	187.7
77.5°	152.4	152.4	151.0	149.6	146.9
80°	114.3	117.0	115.6	114.3	112.9
82.5°	78.9	81.6	81.6	78.9	78.9
85°	44.9	49.0	49.0	49.0	49.0
87.5°	15.0	20.4	21.8	21.8	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)