

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: P688827

Luminaire Tested: SQ4R-PP3-100D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688827
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3611.0 lumens
Efficiency: N/A
Efficacy: 78.3 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

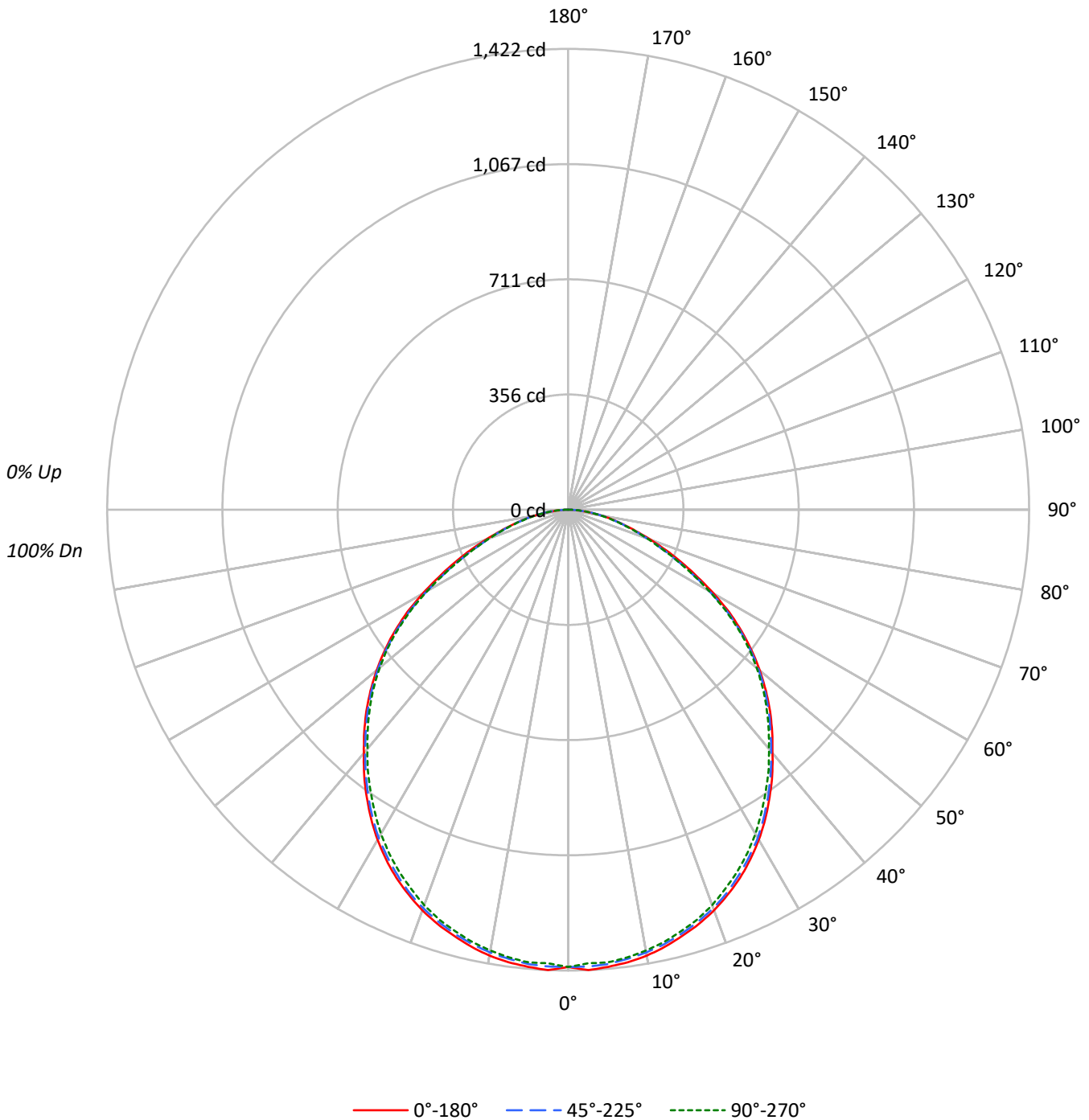
Input Watts (W): 46.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	13583	13583	13583
5°	13683	13599	13552
10°	13660	13563	13502
15°	13570	13495	13422
20°	13480	13404	13302
25°	13320	13227	13096
30°	13073	13004	12839
35°	12731	12644	12484
40°	12324	12246	12106
45°	11987	11902	11785
50°	11557	11483	11371
55°	10959	10813	10730
60°	9976	9691	9643
65°	8789	8422	8395
70°	7589	7274	7274
75°	6532	6439	6346
80°	5760	5827	5688
85°	4507	4916	4916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11987 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.7
10°-20°	381.2	10.6
20°-30°	570.9	15.8
30°-40°	669.6	18.5
40°-50°	671.7	18.6
50°-60°	573.5	15.9
60°-70°	372.7	10.3
70°-80°	186.7	5.2
80°-90°	51.2	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°	1085.6	30.1
0°-40°	1755.2	48.6
0°-60°	3000.4	83.1
0°-90°	3611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1416	1402	1407	1402	1402	135
15°	1362	1348	1354	1349	1347	384
25°	1254	1239	1245	1234	1233	577
35°	1083	1072	1076	1063	1062	677
45°	880	874	874	866	866	678
55°	653	650	644	640	639	581
65°	386	378	370	367	368	385
75°	176	176	173	172	171	190
85°	41	44	44	44	44	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.9	1410.9	1410.9	1410.9	1410.9
2.5°	1422.0	1407.2	1410.9	1408.4	1401.0
5°	1415.9	1402.3	1407.2	1402.3	1402.3
7.5°	1408.4	1393.6	1398.5	1393.6	1393.6
10°	1397.3	1382.5	1387.4	1382.5	1381.2
12.5°	1381.2	1366.4	1372.6	1366.4	1366.4
15°	1361.5	1347.8	1354.0	1349.1	1346.6
17.5°	1340.4	1325.6	1333.0	1326.8	1325.6
20°	1315.7	1300.9	1308.3	1298.4	1298.4
22.5°	1286.0	1271.2	1279.8	1266.2	1266.2
25°	1253.9	1239.0	1245.2	1234.1	1232.8
27.5°	1216.8	1201.9	1208.1	1195.8	1195.8
30°	1176.0	1162.4	1169.8	1156.2	1154.9
32.5°	1131.5	1119.1	1124.0	1110.4	1109.2
35°	1083.2	1072.1	1075.8	1063.4	1062.2
37.5°	1033.8	1021.4	1026.3	1015.2	1015.2
40°	980.6	973.2	974.4	965.8	963.3
42.5°	931.1	922.5	923.7	915.1	915.1
45°	880.4	874.2	874.2	865.6	865.6
47.5°	827.3	822.3	821.1	813.7	813.7
50°	771.6	767.9	766.7	760.5	759.2
52.5°	713.5	712.3	707.3	702.4	702.4
55°	652.9	650.4	644.2	640.5	639.3
57.5°	588.6	583.7	577.5	571.3	572.5
60°	518.1	513.2	503.3	500.8	500.8
62.5°	450.1	443.9	434.0	430.3	432.8
65°	385.8	378.4	369.7	367.3	368.5
67.5°	326.5	319.0	309.1	309.1	307.9
70°	269.6	265.9	258.4	258.4	258.4
72.5°	218.9	217.6	212.7	212.7	211.5
75°	175.6	175.6	173.1	171.9	170.6
77.5°	138.5	138.5	137.3	136.0	133.5
80°	103.9	106.3	105.1	103.9	102.6
82.5°	71.7	74.2	74.2	71.7	71.7
85°	40.8	44.5	44.5	44.5	44.5
87.5°	13.6	18.5	19.8	19.8	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)