

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: P688546

Luminaire Tested: SQ4R-PP3-075D-935-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688546
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-PP3-075D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.5 lumens
Efficiency: N/A
Efficacy: 93.6 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

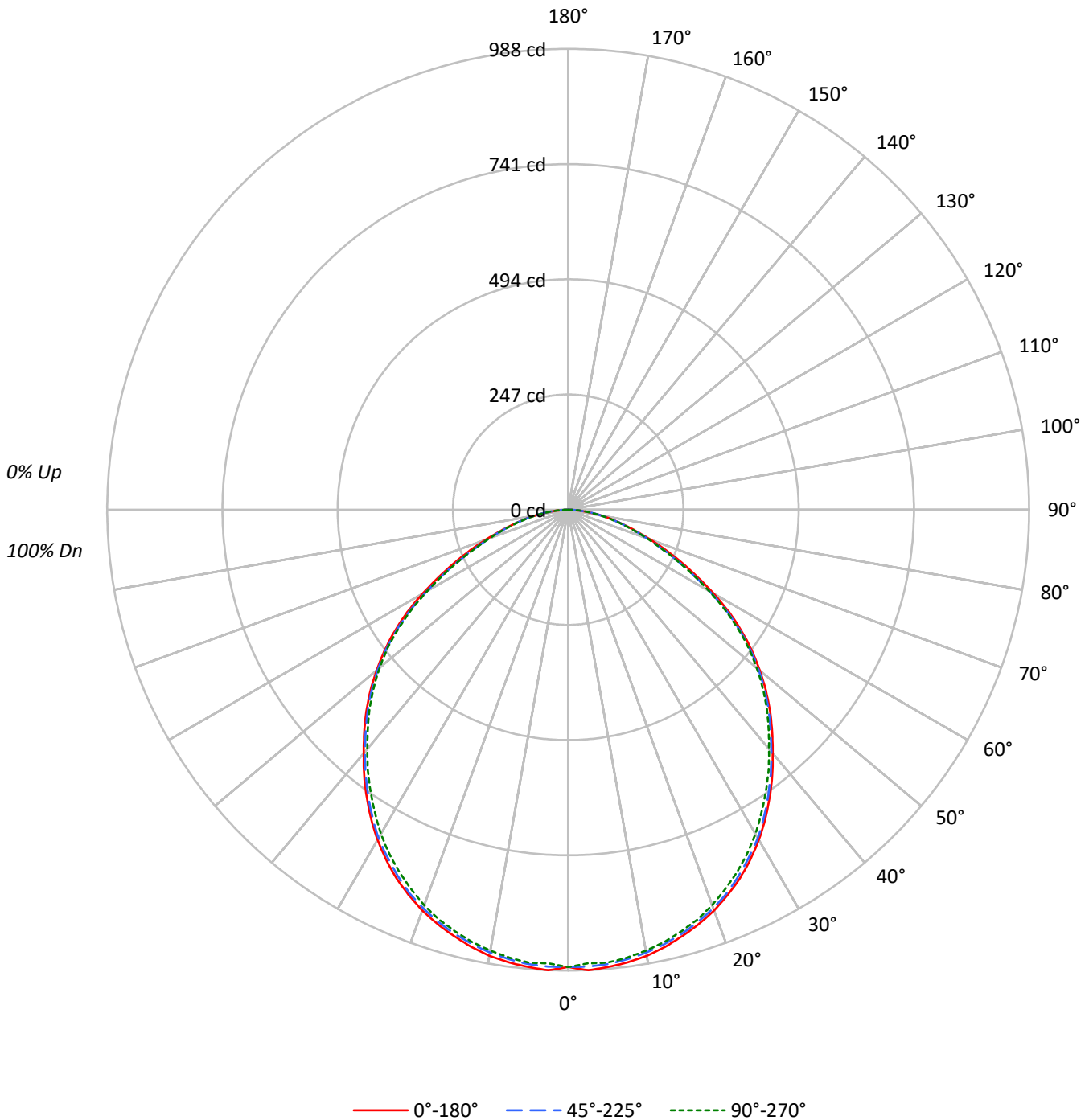
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688546

CATALOG NUMBER: SQ4R-PP3-075D-935-1-UNV-STD-W-4

Luminous Intensity Polar Plot



TEST NUMBER: P688546

CATALOG NUMBER: SQ4R-PP3-075D-935-1-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				
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°	9440	9440	9440
5°	9509	9452	9418
10°	9493	9426	9384
15°	9431	9379	9327
20°	9368	9315	9244
25°	9257	9193	9101
30°	9086	9038	8922
35°	8848	8786	8676
40°	8565	8511	8413
45°	8331	8273	8191
50°	8031	7980	7902
55°	7615	7515	7457
60°	6934	6735	6701
65°	6107	5852	5834
70°	5272	5055	5055
75°	4538	4475	4412
80°	4003	4047	3953
85°	3137	3413	3413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8331 cd/sqm

TEST NUMBER: P688546

CATALOG NUMBER: SQ4R-PP3-075D-935-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	3.7
10°-20°	264.9	10.6
20°-30°	396.8	15.8
30°-40°	465.4	18.5
40°-50°	466.8	18.6
50°-60°	398.6	15.9
60°-70°	259.0	10.3
70°-80°	129.7	5.2
80°-90°	35.6	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°	754.4	30.1
0°-40°	1219.8	48.6
0°-60°	2085.2	83.1
0°-90°	2509.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	980	980	980	980	980	
5°	984	974	978	974	974	94
15°	946	937	941	938	936	267
25°	871	861	865	858	857	401
35°	753	745	748	739	738	471
45°	612	608	608	602	602	471
55°	454	452	448	445	444	404
65°	268	263	257	255	256	267
75°	122	122	120	120	119	132
85°	28	31	31	31	31	34
90°	0	0	0	0	0	

TEST NUMBER: P688546

CATALOG NUMBER: SQ4R-PP3-075D-935-1-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	980.5	980.5	980.5	980.5	980.5
2.5°	988.3	978.0	980.5	978.8	973.7
5°	984.0	974.5	978.0	974.5	974.5
7.5°	978.8	968.5	971.9	968.5	968.5
10°	971.1	960.8	964.2	960.8	959.9
12.5°	959.9	949.6	953.9	949.6	949.6
15°	946.2	936.7	941.0	937.6	935.8
17.5°	931.5	921.2	926.4	922.1	921.2
20°	914.4	904.0	909.2	902.3	902.3
22.5°	893.7	883.4	889.4	880.0	880.0
25°	871.4	861.1	865.4	857.6	856.8
27.5°	845.6	835.3	839.6	831.0	831.0
30°	817.3	807.8	813.0	803.5	802.6
32.5°	786.3	777.7	781.2	771.7	770.8
35°	752.8	745.1	747.6	739.0	738.2
37.5°	718.4	709.8	713.3	705.5	705.5
40°	681.5	676.3	677.2	671.2	669.4
42.5°	647.1	641.1	641.9	635.9	635.9
45°	611.9	607.6	607.6	601.6	601.6
47.5°	574.9	571.5	570.6	565.5	565.5
50°	536.2	533.7	532.8	528.5	527.6
52.5°	495.9	495.0	491.6	488.1	488.1
55°	453.7	452.0	447.7	445.1	444.3
57.5°	409.1	405.6	401.3	397.0	397.9
60°	360.1	356.6	349.8	348.0	348.0
62.5°	312.8	308.5	301.6	299.1	300.8
65°	268.1	263.0	256.9	255.2	256.1
67.5°	226.9	221.7	214.8	214.8	214.0
70°	187.3	184.8	179.6	179.6	179.6
72.5°	152.1	151.2	147.8	147.8	147.0
75°	122.0	122.0	120.3	119.5	118.6
77.5°	96.2	96.2	95.4	94.5	92.8
80°	72.2	73.9	73.0	72.2	71.3
82.5°	49.8	51.6	51.6	49.8	49.8
85°	28.4	30.9	30.9	30.9	30.9
87.5°	9.5	12.9	13.7	13.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)