

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: P688545

Luminaire Tested: SQ4R-PP3-075D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688545
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-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2373.5 lumens
Efficiency: N/A
Efficacy: 88.6 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

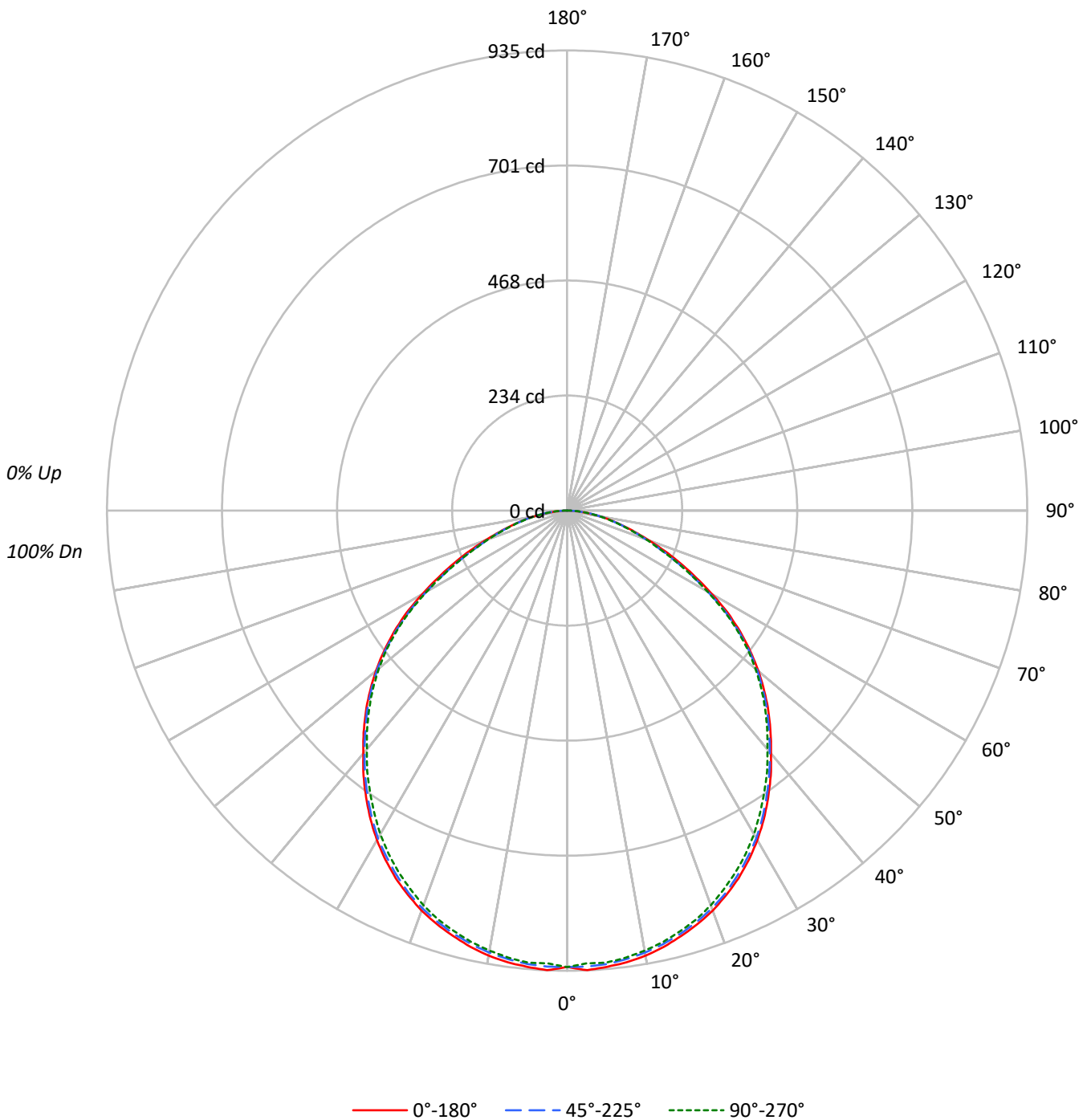
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	8928	8928	8928
5°	8993	8938	8907
10°	8978	8915	8876
15°	8919	8871	8822
20°	8860	8810	8743
25°	8754	8695	8607
30°	8592	8548	8439
35°	8368	8310	8206
40°	8100	8050	7957
45°	7879	7823	7746
50°	7597	7547	7474
55°	7202	7107	7053
60°	6556	6369	6339
65°	5777	5536	5517
70°	4988	4782	4782
75°	4293	4233	4174
80°	3787	3831	3742
85°	2960	3237	3237

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7879 cd/sqm

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CATALOG NUMBER: SQ4R-PP3-075D-930-1-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.7
10°-20°	250.5	10.6
20°-30°	375.3	15.8
30°-40°	440.1	18.5
40°-50°	441.5	18.6
50°-60°	377.0	15.9
60°-70°	245.0	10.3
70°-80°	122.7	5.2
80°-90°	33.7	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°	713.5	30.1
0°-40°	1153.7	48.6
0°-60°	1972.1	83.1
0°-90°	2373.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	931	922	925	922	922	88
15°	895	886	890	887	885	253
25°	824	814	818	811	810	379
35°	712	705	707	699	698	445
45°	579	575	575	569	569	446
55°	429	428	423	421	420	382
65°	254	249	243	241	242	253
75°	115	115	114	113	112	125
85°	27	29	29	29	29	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.4	927.4	927.4	927.4	927.4
2.5°	934.7	924.9	927.4	925.7	920.9
5°	930.6	921.7	924.9	921.7	921.7
7.5°	925.7	916.0	919.2	916.0	916.0
10°	918.4	908.7	911.9	908.7	907.9
12.5°	907.9	898.1	902.2	898.1	898.1
15°	894.9	885.9	890.0	886.7	885.1
17.5°	881.0	871.3	876.2	872.1	871.3
20°	864.8	855.0	859.9	853.4	853.4
22.5°	845.3	835.5	841.2	832.3	832.3
25°	824.1	814.4	818.5	811.1	810.3
27.5°	799.8	790.0	794.1	785.9	785.9
30°	772.9	764.0	768.9	759.9	759.1
32.5°	743.7	735.6	738.8	729.9	729.0
35°	712.0	704.7	707.1	699.0	698.2
37.5°	679.5	671.3	674.6	667.3	667.3
40°	644.5	639.6	640.5	634.8	633.1
42.5°	612.0	606.3	607.1	601.4	601.4
45°	578.7	574.6	574.6	568.9	568.9
47.5°	543.7	540.5	539.7	534.8	534.8
50°	507.2	504.7	503.9	499.8	499.0
52.5°	469.0	468.2	464.9	461.6	461.6
55°	429.1	427.5	423.4	421.0	420.2
57.5°	386.9	383.6	379.6	375.5	376.3
60°	340.5	337.3	330.8	329.2	329.2
62.5°	295.8	291.8	285.3	282.8	284.5
65°	253.6	248.7	243.0	241.4	242.2
67.5°	214.6	209.7	203.2	203.2	202.4
70°	177.2	174.7	169.9	169.9	169.9
72.5°	143.9	143.0	139.8	139.8	139.0
75°	115.4	115.4	113.8	113.0	112.2
77.5°	91.0	91.0	90.2	89.4	87.8
80°	68.3	69.9	69.1	68.3	67.5
82.5°	47.1	48.8	48.8	47.1	47.1
85°	26.8	29.3	29.3	29.3	29.3
87.5°	8.9	12.2	13.0	13.0	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)