

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: P688581

Luminaire Tested: SQ4R-PR1-075D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688581
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-075D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 2347.5 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

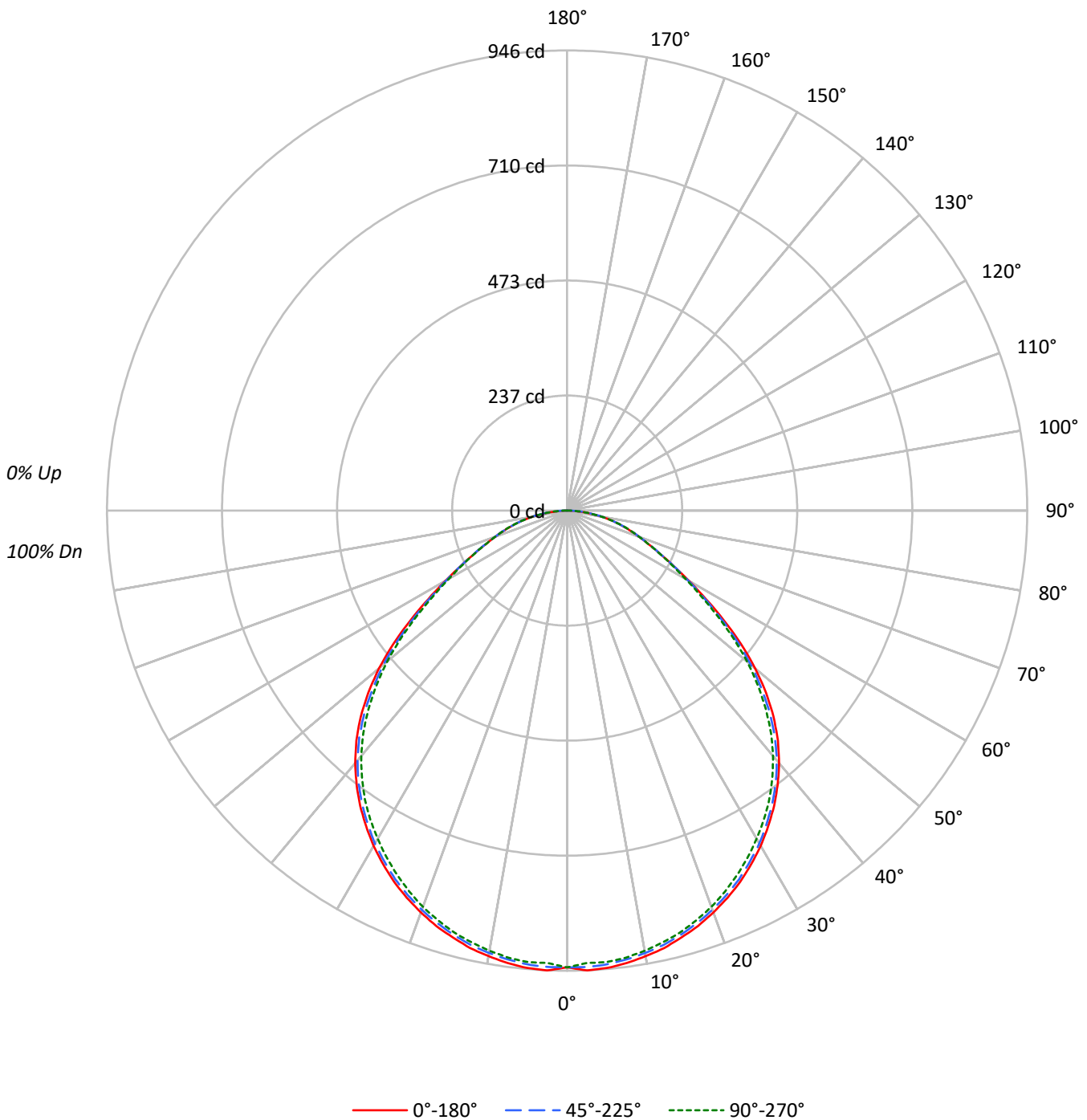
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9040	9040	9040
5°	9122	9051	9004
10°	9093	9029	8982
15°	9053	8996	8948
20°	9008	8949	8883
25°	8944	8884	8781
30°	8848	8784	8659
35°	8717	8641	8517
40°	8518	8427	8275
45°	8170	8027	7863
50°	7559	7378	7233
55°	6598	6449	6313
60°	5559	5513	5405
65°	4809	4827	4791
70°	4416	4439	4439
75°	4240	4240	4270
80°	3992	4036	3992
85°	3214	3579	3579

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.8
10°-20°	254.2	10.8
20°-30°	383.4	16.3
30°-40°	456.9	19.5
40°-50°	450.7	19.2
50°-60°	343.8	14.6
60°-70°	212.2	9.0
70°-80°	120.9	5.2
80°-90°	36.5	1.6
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°	726.4	30.9
0°-40°	1183.4	50.4
0°-60°	1977.9	84.3
0°-90°	2347.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	939	939	939	939	939	
5°	944	933	937	933	932	90
15°	908	899	903	899	898	256
25°	842	831	836	827	827	388
35°	742	733	735	726	725	463
45°	600	592	590	579	578	460
55°	393	387	384	378	376	352
65°	211	210	212	210	210	213
75°	114	114	114	115	115	120
85°	29	31	32	32	32	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.0	939.0	939.0	939.0	939.0
2.5°	946.3	935.8	939.0	936.6	930.9
5°	943.9	933.3	936.6	933.3	931.7
7.5°	938.2	927.7	930.9	927.7	926.9
10°	930.1	920.4	923.6	920.4	918.8
12.5°	921.2	910.7	914.7	910.7	909.1
15°	908.3	898.6	902.6	899.4	897.8
17.5°	895.3	884.8	888.9	885.6	883.2
20°	879.2	869.5	873.5	867.8	867.0
22.5°	861.4	851.7	855.7	847.6	847.6
25°	842.0	831.4	836.3	827.4	826.6
27.5°	819.3	809.6	813.6	804.8	803.9
30°	795.9	786.1	790.2	780.5	778.9
32.5°	769.2	760.3	763.5	753.8	753.0
35°	741.7	732.8	735.2	725.5	724.7
37.5°	710.9	702.8	704.5	693.9	693.1
40°	677.8	669.7	670.5	659.2	658.4
42.5°	641.4	633.3	632.5	621.2	620.3
45°	600.1	592.0	589.6	579.1	577.5
47.5°	554.8	546.7	541.9	533.0	532.2
50°	504.7	496.6	492.6	485.3	482.9
52.5°	450.5	442.4	439.2	432.7	430.3
55°	393.1	386.6	384.2	377.7	376.1
57.5°	338.1	333.2	332.4	325.9	325.1
60°	288.7	286.3	286.3	280.7	280.7
62.5°	246.7	245.1	246.7	243.4	242.6
65°	211.1	209.5	211.9	210.3	210.3
67.5°	181.2	181.2	182.8	182.0	182.0
70°	156.9	156.9	157.7	157.7	157.7
72.5°	135.1	134.3	136.7	136.7	135.9
75°	114.0	114.0	114.0	114.8	114.8
77.5°	93.0	93.0	93.8	93.8	93.0
80°	72.0	72.8	72.8	72.0	72.0
82.5°	51.0	51.8	51.8	51.8	51.0
85°	29.1	30.7	32.4	32.4	32.4
87.5°	10.5	13.7	16.2	16.2	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)