

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: P688617

Luminaire Tested: SQ4R-PW1-075D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-35)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-075D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES 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: 2269.2 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.2 / 1.29
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

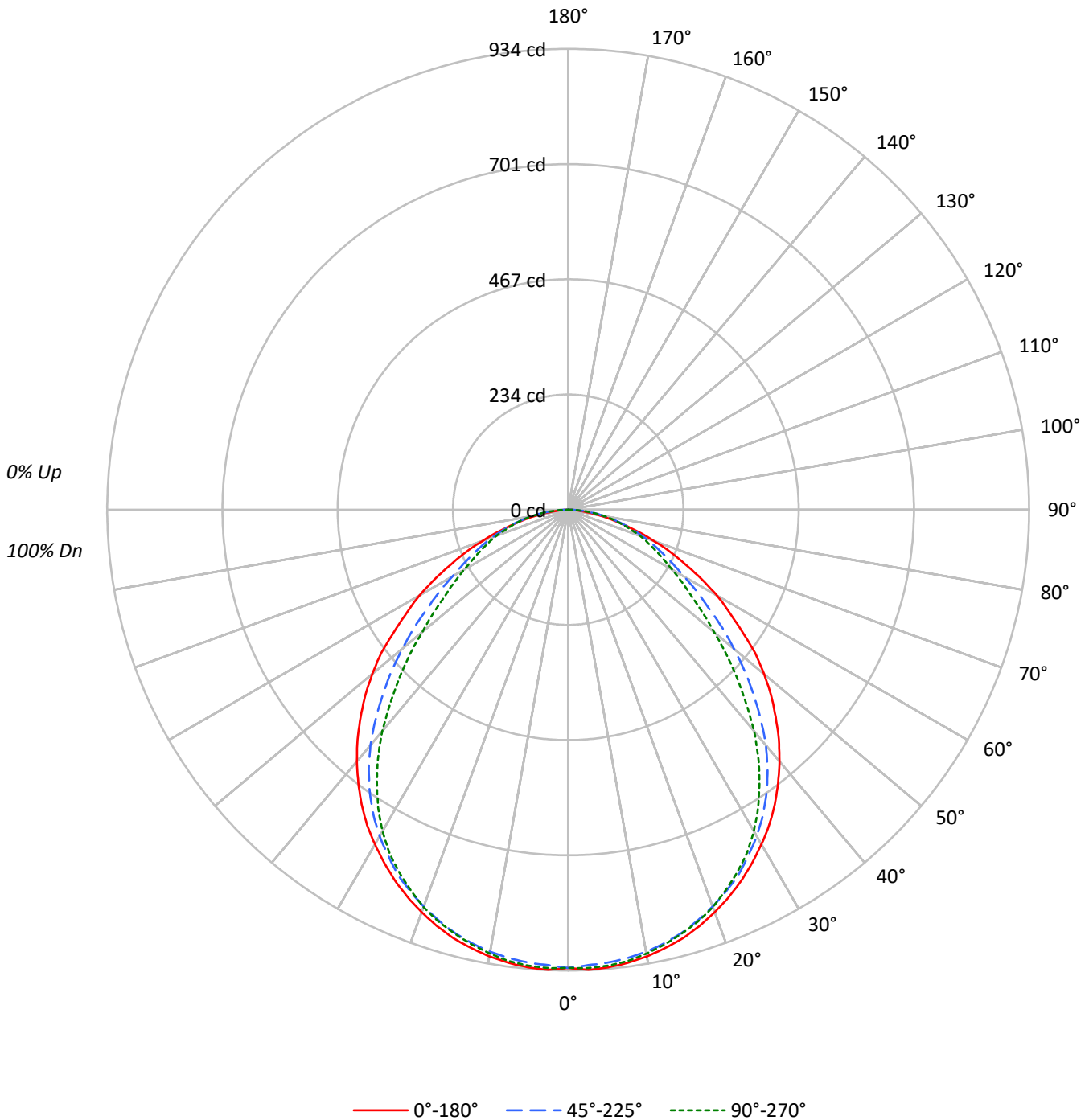
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	99	96	93	95	92	90	91	89	87				85	
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74				72	
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64				62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56				54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49				47	
6	72	59	51	45	70	59	50	44	57	49	44	55	49	44	54	48	43				41	
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39				37	
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35				33	
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32				30	
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29				27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8942	8942	8942
5°	8998	8906	8964
10°	8986	8893	8927
15°	8959	8853	8865
20°	8892	8769	8781
25°	8814	8673	8611
30°	8705	8493	8361
35°	8573	8235	7941
40°	8371	7831	7366
45°	8094	7232	6599
50°	7760	6562	5775
55°	7214	5831	5109
60°	6712	5218	4689
65°	5955	4841	4433
70°	5174	4602	4369
75°	4263	4352	4174
80°	3376	4103	4103
85°	2507	3689	3822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8094 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	3.9
10°-20°	251.7	11.1
20°-30°	377.0	16.6
30°-40°	438.0	19.3
40°-50°	413.3	18.2
50°-60°	322.4	14.2
60°-70°	218.9	9.6
70°-80°	123.3	5.4
80°-90°	36.6	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°	716.8	31.6
0°-40°	1154.8	50.9
0°-60°	1890.5	83.3
0°-90°	2269.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2269.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	931	929	922	929	928	88
15°	899	895	888	893	889	253
25°	830	826	816	814	811	382
35°	729	722	701	685	676	456
45°	594	577	531	498	485	458
55°	430	405	347	314	304	386
65°	261	238	212	199	195	261
75°	115	119	117	112	112	125
85°	23	32	33	33	35	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.8	928.8	928.8	928.8	928.8
2.5°	933.5	931.1	924.0	931.1	929.9
5°	931.1	928.8	921.6	928.8	927.6
7.5°	926.4	925.2	916.8	924.0	922.8
10°	919.2	918.0	909.7	915.6	913.2
12.5°	909.7	908.5	900.1	904.9	902.5
15°	898.9	895.3	888.2	892.9	889.4
17.5°	884.6	881.0	872.6	876.2	875.0
20°	867.9	864.3	855.9	859.5	857.1
22.5°	850.0	846.4	836.8	838.0	834.4
25°	829.7	826.1	816.5	814.2	810.6
27.5°	807.0	804.6	790.3	787.9	784.3
30°	783.1	779.5	764.0	759.2	752.1
32.5°	758.0	750.9	734.2	724.6	716.3
35°	729.4	722.2	700.7	685.2	675.7
37.5°	698.4	687.6	663.7	642.2	632.7
40°	666.1	654.2	623.1	594.5	586.1
42.5°	631.5	617.2	577.8	547.9	533.6
45°	594.5	576.6	531.2	497.8	484.7
47.5°	557.5	534.8	485.9	450.1	435.7
50°	518.1	490.6	438.1	399.9	385.6
52.5°	477.5	447.7	393.9	354.6	343.8
55°	429.8	404.7	347.4	314.0	304.4
57.5°	386.8	359.3	309.2	280.5	273.4
60°	348.6	315.2	271.0	249.5	243.5
62.5°	304.4	274.6	239.9	223.2	217.3
65°	261.4	237.6	212.5	199.4	194.6
67.5°	224.4	204.1	187.4	176.7	174.3
70°	183.8	173.1	163.5	155.2	155.2
72.5°	149.2	145.6	139.7	134.9	131.3
75°	114.6	119.4	117.0	112.2	112.2
77.5°	87.1	94.3	95.5	93.1	94.3
80°	60.9	71.6	74.0	72.8	74.0
82.5°	38.2	51.3	53.7	53.7	54.9
85°	22.7	32.2	33.4	33.4	34.6
87.5°	9.6	15.5	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)