

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: P686071

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

Issue Date: 11/18/2022

Test Information

Test Method: LM-79-2019
Report Number: P686071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-F-075D-935-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH FROSTED LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

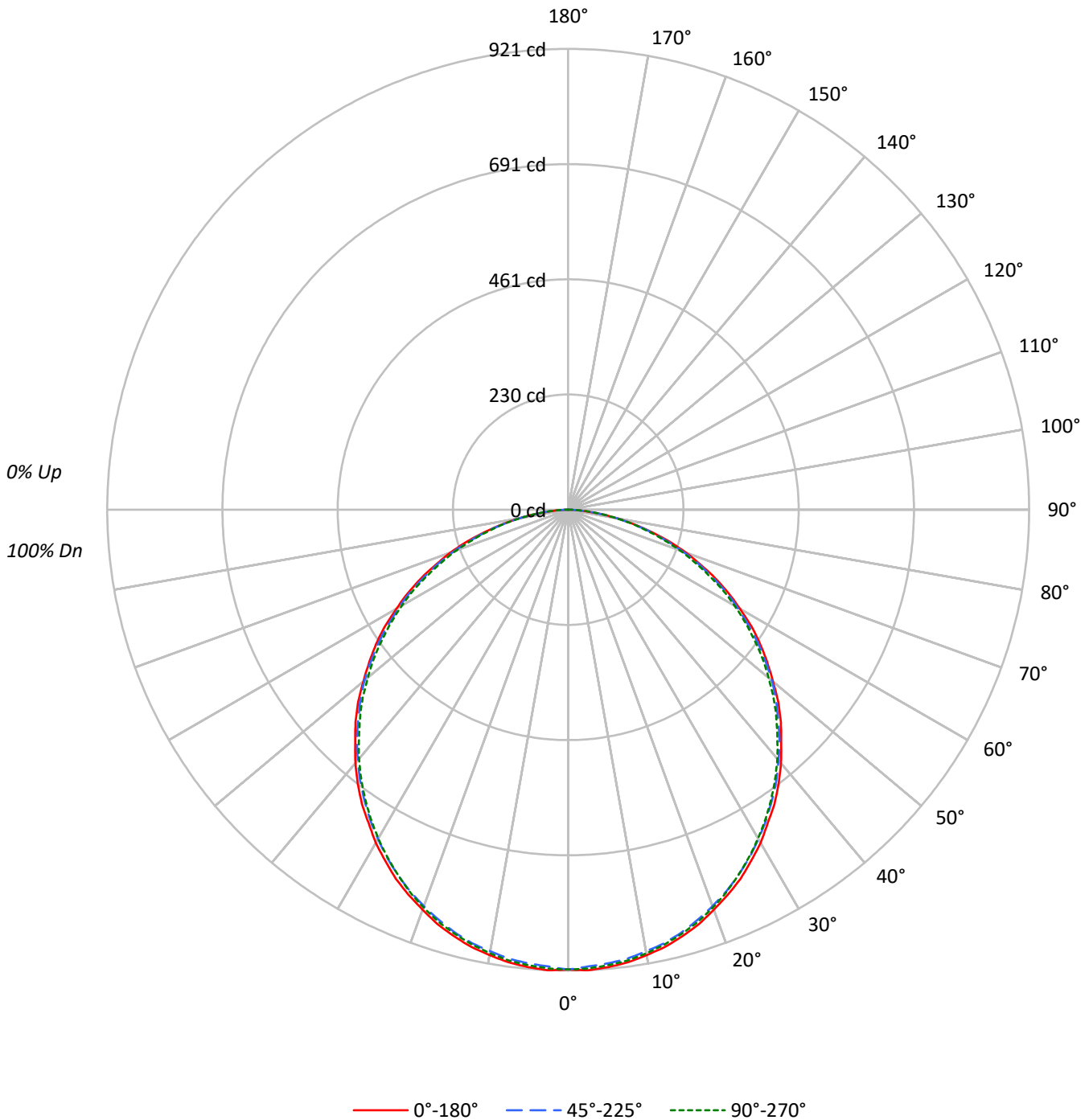
Lumens per Lamp: N/A
Luminaire Lumens: 2561.3 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.23 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8847	8847	8847
5°	8868	8795	8831
10°	8834	8761	8798
15°	8794	8718	8743
20°	8716	8639	8664
25°	8648	8554	8554
30°	8545	8448	8433
35°	8441	8337	8307
40°	8312	8217	8169
45°	8180	8076	8008
50°	7996	7959	7827
55°	7860	7755	7627
60°	7631	7509	7388
65°	7390	7217	7044
70°	7034	6820	6680
75°	6387	6245	6104
80°	5461	5461	5389
85°	3899	4186	4186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.4
10°-20°	247.8	9.7
20°-30°	372.5	14.5
30°-40°	445.2	17.4
40°-50°	458.8	17.9
50°-60°	412.8	16.1
60°-70°	313.8	12.3
70°-80°	178.4	7.0
80°-90°	45.1	1.8
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°	707.3	27.6
0°-40°	1152.5	45.0
0°-60°	2024.0	79.0
0°-90°	2561.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	918	916	910	918	914	87
15°	882	881	875	880	877	249
25°	814	812	805	808	805	375
35°	718	716	709	709	707	449
45°	601	601	593	590	588	463
55°	468	467	462	458	454	418
65°	324	323	317	313	309	320
75°	172	170	168	167	164	183
85°	35	37	38	38	38	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.9	918.9	918.9	918.9	918.9
2.5°	921.4	918.9	913.8	920.2	917.6
5°	917.6	916.4	910.1	917.6	913.8
7.5°	912.6	911.3	905.0	911.3	908.8
10°	903.7	902.5	896.2	902.5	900.0
12.5°	894.9	893.6	887.3	892.4	889.9
15°	882.3	881.0	874.7	879.8	877.2
17.5°	868.4	867.1	859.6	864.6	863.4
20°	850.7	849.5	843.2	846.9	845.7
22.5°	833.1	831.8	825.5	829.3	826.8
25°	814.1	811.6	805.3	807.8	805.3
27.5°	791.4	790.1	783.8	785.1	782.6
30°	768.7	767.4	759.9	761.1	758.6
32.5°	742.2	742.2	735.9	735.9	733.3
35°	718.2	715.7	709.4	709.4	706.8
37.5°	690.4	687.9	682.9	681.6	679.1
40°	661.4	660.1	653.8	652.6	650.0
42.5°	629.8	631.1	624.8	621.0	618.5
45°	600.8	600.8	593.2	589.5	588.2
47.5°	569.3	569.3	562.9	559.2	556.6
50°	533.9	536.4	531.4	525.1	522.6
52.5°	501.1	502.4	496.1	492.3	489.7
55°	468.3	467.0	462.0	458.2	454.4
57.5°	434.2	432.9	425.4	421.6	419.1
60°	396.3	396.3	390.0	386.2	383.7
62.5°	361.0	359.7	354.7	349.6	348.4
65°	324.4	323.1	316.8	313.0	309.2
67.5°	285.3	284.0	280.2	275.2	272.6
70°	249.9	246.1	242.3	238.6	237.3
72.5°	212.1	208.3	204.5	202.0	199.4
75°	171.7	170.4	167.9	166.6	164.1
77.5°	135.1	135.1	132.5	131.3	131.3
80°	98.5	98.5	98.5	97.2	97.2
82.5°	64.4	65.6	65.6	64.4	65.6
85°	35.3	36.6	37.9	37.9	37.9
87.5°	11.4	15.1	13.9	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)