

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: P688543

Luminaire Tested: SQ4R-PP3-075D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688543
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-835-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2922.9 lumens
Efficiency: N/A
Efficacy: 109.1 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

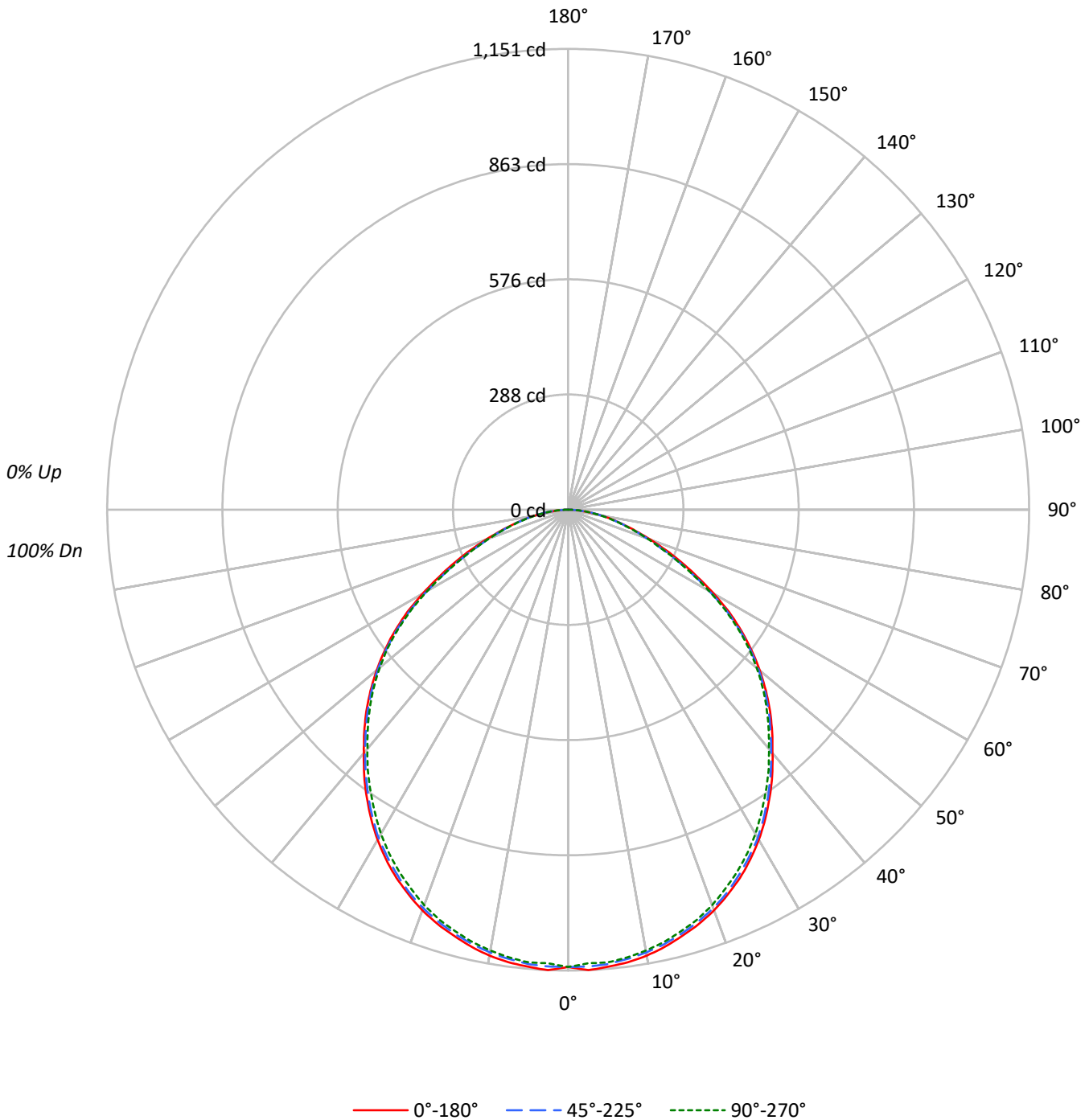
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10994	10994	10994
5°	11075	11007	10969
10°	11056	10978	10929
15°	10984	10924	10864
20°	10911	10850	10768
25°	10781	10707	10600
30°	10582	10526	10393
35°	10305	10234	10105
40°	9975	9912	9799
45°	9702	9634	9539
50°	9355	9295	9205
55°	8871	8753	8686
60°	8075	7844	7806
65°	7114	6818	6795
70°	6142	5889	5889
75°	5286	5211	5137
80°	4663	4718	4607
85°	3645	3977	3977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9702 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.7
10°-20°	308.5	10.6
20°-30°	462.1	15.8
30°-40°	542.0	18.5
40°-50°	543.7	18.6
50°-60°	464.2	15.9
60°-70°	301.7	10.3
70°-80°	151.1	5.2
80°-90°	41.4	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°	878.7	30.1
0°-40°	1420.7	48.6
0°-60°	2428.6	83.1
0°-90°	2922.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1135	1139	1135	1135	109
15°	1102	1091	1096	1092	1090	311
25°	1015	1003	1008	999	998	467
35°	877	868	871	861	860	548
45°	713	708	708	701	701	549
55°	528	526	522	518	518	470
65°	312	306	299	297	298	311
75°	142	142	140	139	138	154
85°	33	36	36	36	36	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.0	1142.0	1142.0	1142.0	1142.0
2.5°	1151.0	1139.0	1142.0	1140.0	1134.0
5°	1146.0	1135.0	1139.0	1135.0	1135.0
7.5°	1140.0	1128.0	1132.0	1128.0	1128.0
10°	1131.0	1119.0	1123.0	1119.0	1118.0
12.5°	1118.0	1106.0	1111.0	1106.0	1106.0
15°	1102.0	1091.0	1096.0	1092.0	1090.0
17.5°	1085.0	1073.0	1079.0	1074.0	1073.0
20°	1065.0	1053.0	1059.0	1051.0	1051.0
22.5°	1040.9	1028.9	1035.9	1024.9	1024.9
25°	1014.9	1002.9	1007.9	998.9	997.9
27.5°	984.9	972.9	977.9	967.9	967.9
30°	951.9	940.9	946.9	935.9	934.9
32.5°	915.8	905.8	909.8	898.8	897.8
35°	876.8	867.8	870.8	860.8	859.8
37.5°	836.8	826.8	830.8	821.7	821.7
40°	793.7	787.7	788.7	781.7	779.7
42.5°	753.7	746.7	747.7	740.7	740.7
45°	712.6	707.6	707.6	700.6	700.6
47.5°	669.6	665.6	664.6	658.6	658.6
50°	624.6	621.6	620.6	615.6	614.6
52.5°	577.5	576.5	572.5	568.5	568.5
55°	528.5	526.5	521.5	518.5	517.5
57.5°	476.4	472.4	467.4	462.4	463.4
60°	419.4	415.4	407.4	405.4	405.4
62.5°	364.3	359.3	351.3	348.3	350.3
65°	312.3	306.3	299.3	297.3	298.3
67.5°	264.2	258.2	250.2	250.2	249.2
70°	218.2	215.2	209.2	209.2	209.2
72.5°	177.2	176.2	172.2	172.2	171.2
75°	142.1	142.1	140.1	139.1	138.1
77.5°	112.1	112.1	111.1	110.1	108.1
80°	84.1	86.1	85.1	84.1	83.1
82.5°	58.1	60.1	60.1	58.1	58.1
85°	33.0	36.0	36.0	36.0	36.0
87.5°	11.0	15.0	16.0	16.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)