

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: P688962

Luminaire Tested: SQ4R-PW1-050D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688962
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-PW1-050D-92765-1-UNV-STD-W-4_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2045.4 lumens
Efficiency: N/A
Efficacy: 96.5 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

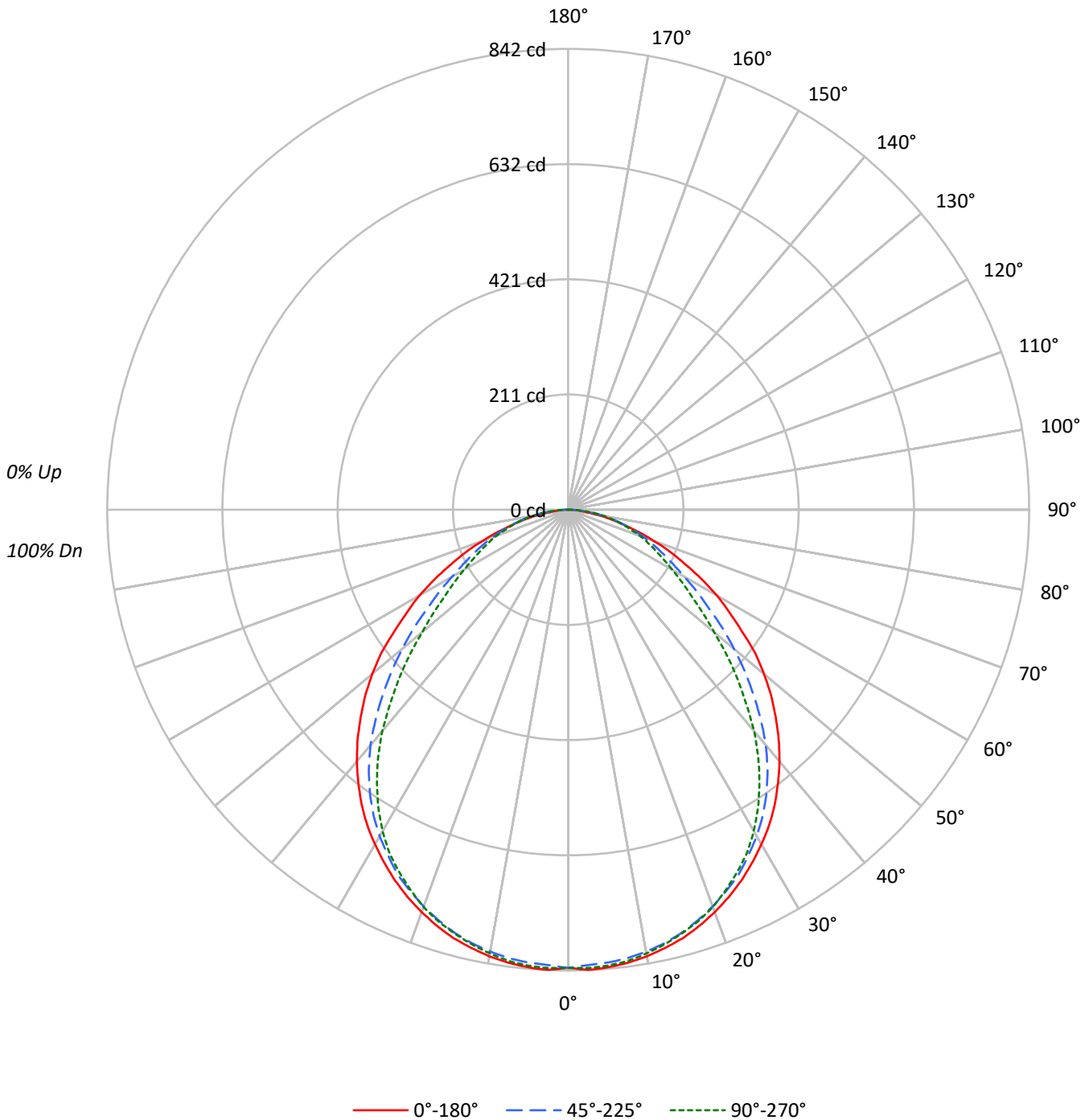
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688962

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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				85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	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	59	50	44	57	49	44	55	49	44	54	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8059	8059	8059
5°	8111	8028	8080
10°	8099	8015	8047
15°	8075	7980	7990
20°	8015	7904	7915
25°	7944	7818	7761
30°	7847	7656	7536
35°	7727	7423	7157
40°	7546	7059	6639
45°	7296	6519	5948
50°	6994	5915	5206
55°	6502	5255	4606
60°	6050	4704	4226
65°	5367	4362	3996
70°	4664	4149	3938
75°	3842	3924	3761
80°	3044	3698	3698
85°	2253	3325	3446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7296 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	3.9
10°-20°	226.9	11.1
20°-30°	339.8	16.6
30°-40°	394.8	19.3
40°-50°	372.5	18.2
50°-60°	290.6	14.2
60°-70°	197.3	9.6
70°-80°	111.1	5.4
80°-90°	33.0	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°	646.1	31.6
0°-40°	1040.9	50.9
0°-60°	1704.1	83.3
0°-90°	2045.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	837	837	837	837	837	
5°	839	837	831	837	836	80
15°	810	807	801	805	802	228
25°	748	745	736	734	731	344
35°	658	651	632	618	609	411
45°	536	520	479	449	437	413
55°	387	365	313	283	274	348
65°	236	214	192	180	175	235
75°	103	108	106	101	101	112
85°	20	29	30	30	31	25
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	837.1	837.1	837.1	837.1	837.1
2.5°	841.5	839.3	832.8	839.3	838.2
5°	839.3	837.1	830.7	837.1	836.1
7.5°	835.0	833.9	826.4	832.8	831.8
10°	828.5	827.5	819.9	825.3	823.2
12.5°	819.9	818.9	811.3	815.6	813.5
15°	810.2	807.0	800.6	804.9	801.6
17.5°	797.3	794.1	786.6	789.8	788.7
20°	782.3	779.0	771.5	774.7	772.6
22.5°	766.1	762.9	754.3	755.4	752.1
25°	747.8	744.6	736.0	733.8	730.6
27.5°	727.4	725.2	712.3	710.2	706.9
30°	705.9	702.6	688.7	684.4	677.9
32.5°	683.3	676.8	661.8	653.1	645.6
35°	657.5	651.0	631.6	617.6	609.0
37.5°	629.5	619.8	598.3	578.9	570.3
40°	600.4	589.7	561.7	535.9	528.3
42.5°	569.2	556.3	520.8	493.9	481.0
45°	535.9	519.7	478.8	448.7	436.9
47.5°	502.5	482.1	437.9	405.7	392.7
50°	467.0	442.2	394.9	360.5	347.6
52.5°	430.4	403.5	355.1	319.6	309.9
55°	387.4	364.8	313.1	283.0	274.4
57.5°	348.6	323.9	278.7	252.9	246.4
60°	314.2	284.1	244.3	224.9	219.5
62.5°	274.4	247.5	216.3	201.2	195.8
65°	235.6	214.1	191.5	179.7	175.4
67.5°	202.3	184.0	168.9	159.3	157.1
70°	165.7	156.0	147.4	139.9	139.9
72.5°	134.5	131.3	125.9	121.6	118.4
75°	103.3	107.6	105.5	101.1	101.1
77.5°	78.5	85.0	86.1	83.9	85.0
80°	54.9	64.6	66.7	65.6	66.7
82.5°	34.4	46.3	48.4	48.4	49.5
85°	20.4	29.1	30.1	30.1	31.2
87.5°	8.6	14.0	15.1	15.1	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)