

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: P688978

Luminaire Tested: SQ4R-PW1-075D-93050-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688978
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-93050-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2956.8 lumens
Efficiency: N/A
Efficacy: 89.6 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

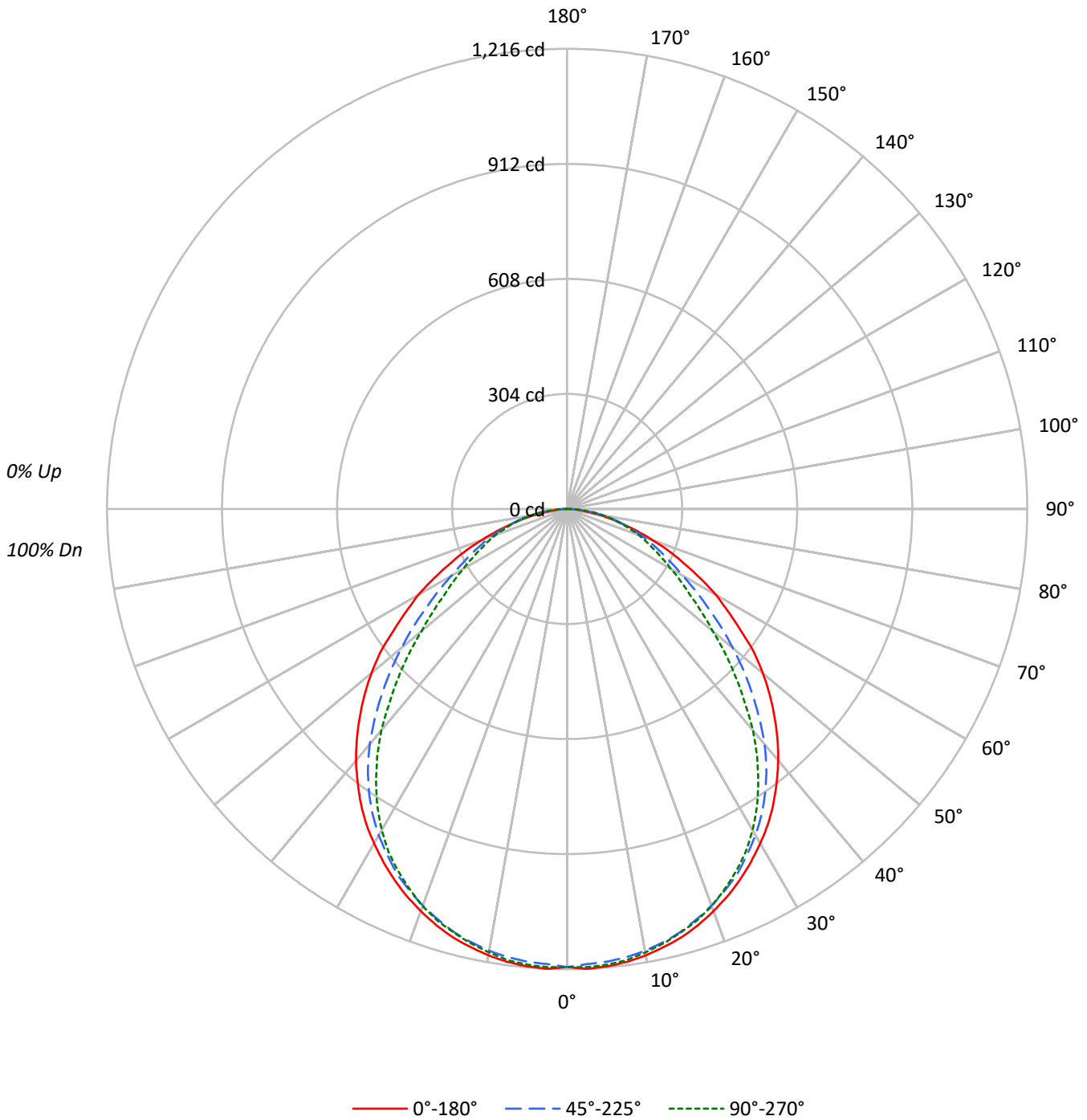
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11651	11651	11651
5°	11725	11605	11680
10°	11709	11587	11632
15°	11674	11535	11550
20°	11585	11426	11442
25°	11483	11301	11220
30°	11343	11067	10893
35°	11170	10731	10347
40°	10907	10205	9598
45°	10546	9424	8598
50°	10111	8551	7525
55°	9399	7597	6657
60°	8745	6799	6110
65°	7759	6308	5775
70°	6742	5998	5692
75°	5554	5669	5438
80°	4397	5345	5345
85°	3270	4816	4982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.9
10°-20°	327.9	11.1
20°-30°	491.2	16.6
30°-40°	570.7	19.3
40°-50°	538.5	18.2
50°-60°	420.1	14.2
60°-70°	285.2	9.6
70°-80°	160.6	5.4
80°-90°	47.7	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°	934.0	31.6
0°-40°	1504.7	50.9
0°-60°	2463.3	83.3
0°-90°	2956.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1213	1210	1201	1210	1209	115
15°	1171	1167	1157	1164	1159	330
25°	1081	1076	1064	1061	1056	498
35°	950	941	913	893	880	594
45°	775	751	692	649	632	597
55°	560	527	453	409	397	503
65°	341	310	277	260	254	340
75°	149	156	152	146	146	162
85°	30	42	44	44	45	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1210.2	1210.2	1210.2	1210.2	1210.2
2.5°	1216.4	1213.3	1203.9	1213.3	1211.7
5°	1213.3	1210.2	1200.8	1210.2	1208.6
7.5°	1207.0	1205.5	1194.6	1203.9	1202.4
10°	1197.7	1196.2	1185.3	1193.0	1189.9
12.5°	1185.3	1183.7	1172.8	1179.0	1175.9
15°	1171.3	1166.6	1157.3	1163.5	1158.8
17.5°	1152.6	1147.9	1137.0	1141.7	1140.2
20°	1130.8	1126.2	1115.3	1119.9	1116.8
22.5°	1107.5	1102.8	1090.4	1091.9	1087.3
25°	1081.0	1076.4	1063.9	1060.8	1056.2
27.5°	1051.5	1048.4	1029.7	1026.6	1021.9
30°	1020.4	1015.7	995.5	989.3	979.9
32.5°	987.7	978.4	956.6	944.2	933.3
35°	950.4	941.1	913.1	892.8	880.4
37.5°	909.9	895.9	864.8	836.8	824.4
40°	867.9	852.4	812.0	774.6	763.7
42.5°	822.8	804.2	752.8	714.0	695.3
45°	774.6	751.3	692.2	648.6	631.5
47.5°	726.4	696.8	633.1	586.4	567.7
50°	675.1	639.3	570.9	521.1	502.4
52.5°	622.2	583.3	513.3	462.0	448.0
55°	560.0	527.3	452.6	409.1	396.6
57.5°	504.0	468.2	402.9	365.5	356.2
60°	454.2	410.6	353.1	325.1	317.3
62.5°	396.6	357.8	312.6	290.9	283.1
65°	340.6	309.5	276.9	259.8	253.5
67.5°	292.4	266.0	244.2	230.2	227.1
70°	239.5	225.5	213.1	202.2	202.2
72.5°	194.4	189.8	182.0	175.8	171.1
75°	149.3	155.5	152.4	146.2	146.2
77.5°	113.5	122.9	124.4	121.3	122.9
80°	79.3	93.3	96.4	94.9	96.4
82.5°	49.8	66.9	70.0	70.0	71.6
85°	29.6	42.0	43.6	43.6	45.1
87.5°	12.4	20.2	21.8	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)