

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: P688623

Luminaire Tested: SQ4R-PW1-100D-930-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688623
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-PW1-100D-930-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3005.5 lumens
Efficiency: N/A
Efficacy: 81.2 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

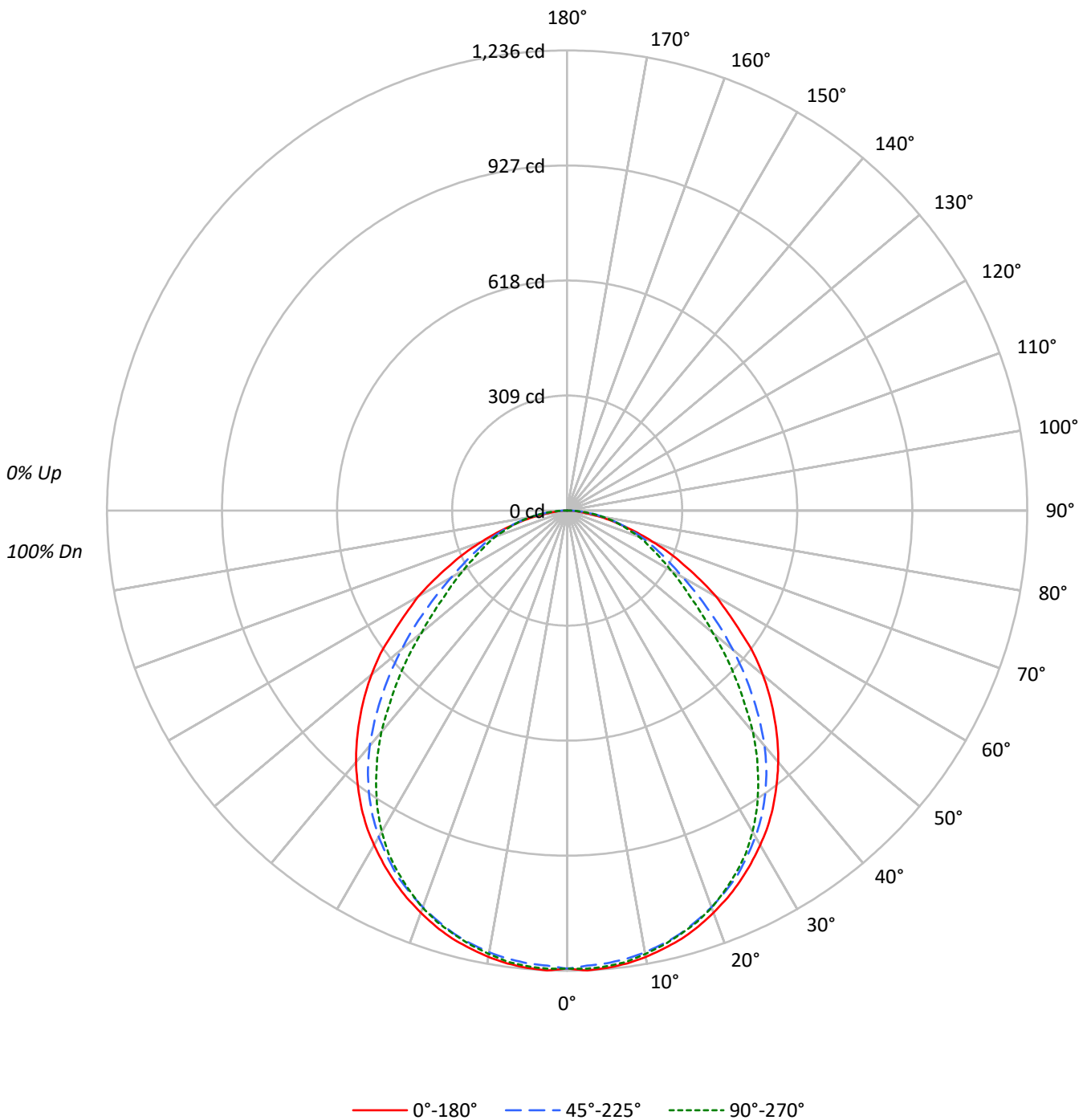
Input Watts (W): 37
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11843	11843	11843
5°	11918	11796	11872
10°	11901	11778	11824
15°	11866	11724	11740
20°	11776	11614	11630
25°	11672	11487	11403
30°	11530	11249	11073
35°	11353	10908	10518
40°	11087	10372	9756
45°	10721	9580	8740
50°	10278	8690	7649
55°	9554	7723	6768
60°	8890	6911	6210
65°	7889	6410	5870
70°	6854	6097	5785
75°	5647	5762	5528
80°	4469	5433	5433
85°	3314	4893	5070

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10721 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.9
10°-20°	333.3	11.1
20°-30°	499.3	16.6
30°-40°	580.1	19.3
40°-50°	547.3	18.2
50°-60°	427.0	14.2
60°-70°	289.9	9.6
70°-80°	163.2	5.4
80°-90°	48.5	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°	949.3	31.6
0°-40°	1529.5	50.9
0°-60°	2503.9	83.3
0°-90°	3005.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3005.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1233	1230	1221	1230	1228	117
15°	1190	1186	1176	1183	1178	336
25°	1099	1094	1081	1078	1074	506
35°	966	956	928	908	895	603
45°	787	764	704	659	642	607
55°	569	536	460	416	403	511
65°	346	315	281	264	258	346
75°	152	158	155	149	149	165
85°	30	43	44	44	46	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.1	1230.1	1230.1	1230.1	1230.1
2.5°	1236.4	1233.2	1223.7	1233.2	1231.6
5°	1233.2	1230.1	1220.6	1230.1	1228.5
7.5°	1226.9	1225.3	1214.3	1223.7	1222.2
10°	1217.4	1215.8	1204.8	1212.7	1209.5
12.5°	1204.8	1203.2	1192.1	1198.4	1195.3
15°	1190.5	1185.8	1176.3	1182.6	1177.9
17.5°	1171.6	1166.8	1155.8	1160.5	1158.9
20°	1149.4	1144.7	1133.6	1138.4	1135.2
22.5°	1125.7	1121.0	1108.3	1109.9	1105.2
25°	1098.8	1094.1	1081.4	1078.3	1073.5
27.5°	1068.8	1065.6	1046.7	1043.5	1038.8
30°	1037.2	1032.4	1011.9	1005.6	996.1
32.5°	1004.0	994.5	972.4	959.7	948.6
35°	966.0	956.5	928.1	907.5	894.9
37.5°	924.9	910.7	879.1	850.6	838.0
40°	882.2	866.4	825.3	787.4	776.3
42.5°	836.4	817.4	765.2	725.7	706.7
45°	787.4	763.7	703.6	659.3	641.9
47.5°	738.4	708.3	643.5	596.1	577.1
50°	686.2	649.8	580.2	529.7	510.7
52.5°	632.4	592.9	521.7	469.6	455.3
55°	569.2	536.0	460.1	415.8	403.2
57.5°	512.3	475.9	409.5	371.5	362.1
60°	461.7	417.4	358.9	330.4	322.5
62.5°	403.2	363.6	317.8	295.7	287.8
65°	346.3	314.6	281.4	264.0	257.7
67.5°	297.2	270.4	248.2	234.0	230.8
70°	243.5	229.3	216.6	205.5	205.5
72.5°	197.6	192.9	185.0	178.7	173.9
75°	151.8	158.1	154.9	148.6	148.6
77.5°	115.4	124.9	126.5	123.3	124.9
80°	80.6	94.9	98.0	96.4	98.0
82.5°	50.6	68.0	71.1	71.1	72.7
85°	30.0	42.7	44.3	44.3	45.9
87.5°	12.6	20.6	22.1	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)