

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: P688820

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688820
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-92765-1-UNV-STD-W-4_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3167.3 lumens
Efficiency: N/A
Efficacy: 96.6 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

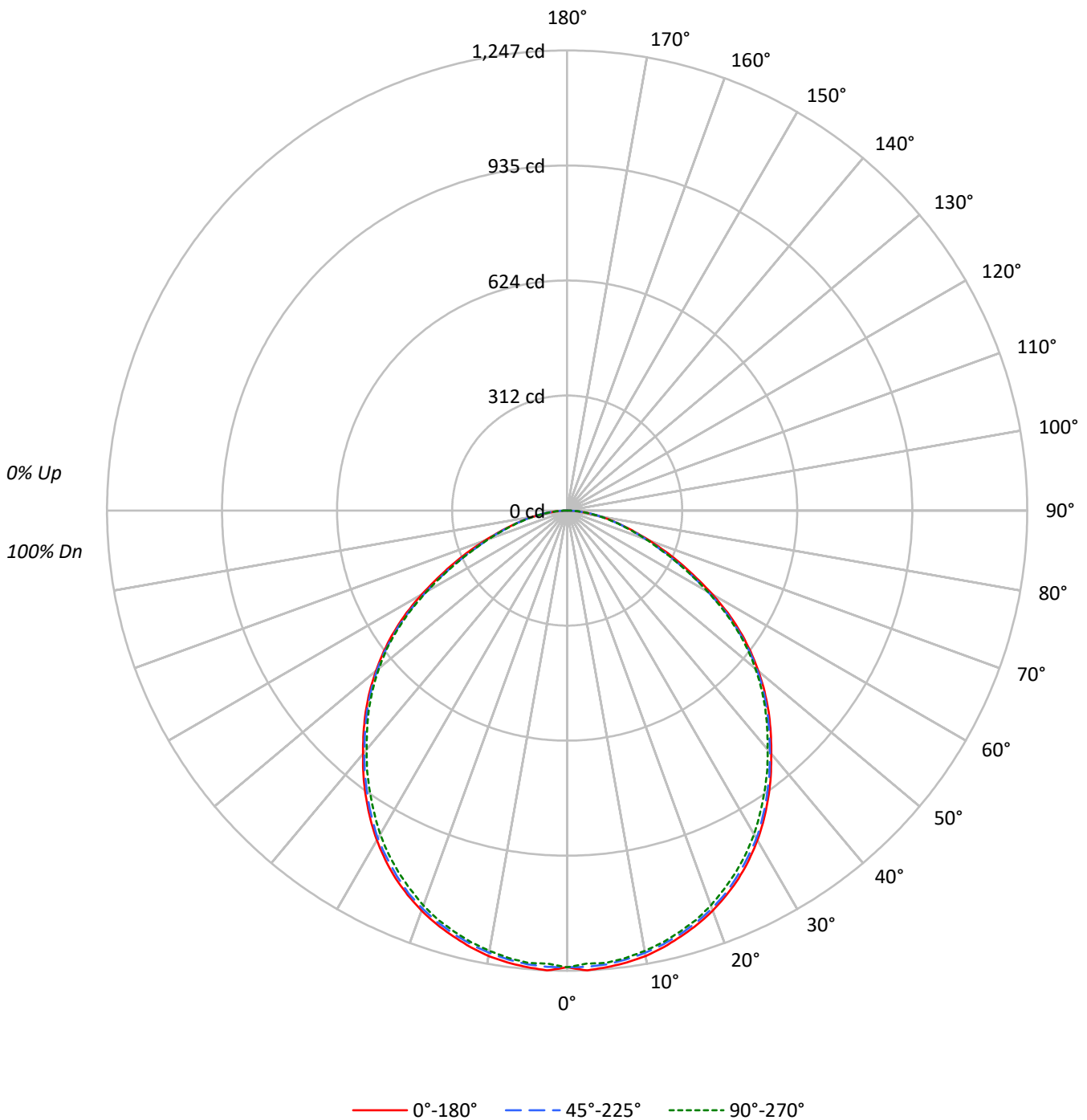
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85				85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72				72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61				61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53				53
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46				46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40				40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36				36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26				26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11914	11914	11914
5°	12002	11928	11886
10°	11981	11896	11843
15°	11903	11837	11772
20°	11823	11756	11667
25°	11683	11602	11487
30°	11467	11406	11261
35°	11166	11090	10950
40°	10809	10742	10618
45°	10514	10440	10337
50°	10137	10072	9974
55°	9613	9485	9411
60°	8751	8499	8459
65°	7709	7388	7363
70°	6654	6381	6381
75°	5728	5647	5568
80°	5051	5112	4990
85°	3955	4308	4308

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.7
10°-20°	334.3	10.6
20°-30°	500.8	15.8
30°-40°	587.3	18.5
40°-50°	589.1	18.6
50°-60°	503.0	15.9
60°-70°	327.0	10.3
70°-80°	163.7	5.2
80°-90°	44.9	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°	952.2	30.1
0°-40°	1539.5	48.6
0°-60°	2631.7	83.1
0°-90°	3167.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3167.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1242	1230	1234	1230	1230	118
15°	1194	1182	1188	1183	1181	337
25°	1100	1087	1092	1082	1081	506
35°	950	940	944	933	932	594
45°	772	767	767	759	759	595
55°	573	570	565	562	561	510
65°	338	332	324	322	323	337
75°	154	154	152	151	150	166
85°	36	39	39	39	39	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.5	1237.5	1237.5	1237.5	1237.5
2.5°	1247.3	1234.3	1237.5	1235.4	1228.9
5°	1241.9	1229.9	1234.3	1229.9	1229.9
7.5°	1235.4	1222.4	1226.7	1222.4	1222.4
10°	1225.6	1212.6	1216.9	1212.6	1211.5
12.5°	1211.5	1198.5	1203.9	1198.5	1198.5
15°	1194.2	1182.2	1187.6	1183.3	1181.1
17.5°	1175.7	1162.7	1169.2	1163.8	1162.7
20°	1154.0	1141.0	1147.5	1138.8	1138.8
22.5°	1128.0	1115.0	1122.6	1110.6	1110.6
25°	1099.8	1086.8	1092.2	1082.4	1081.4
27.5°	1067.3	1054.2	1059.7	1048.8	1048.8
30°	1031.5	1019.5	1026.0	1014.1	1013.0
32.5°	992.4	981.6	985.9	974.0	972.9
35°	950.1	940.4	943.6	932.8	931.7
37.5°	906.7	895.9	900.2	890.5	890.5
40°	860.1	853.6	854.7	847.1	844.9
42.5°	816.7	809.1	810.2	802.6	802.6
45°	772.2	766.8	766.8	759.2	759.2
47.5°	725.6	721.3	720.2	713.7	713.7
50°	676.8	673.5	672.5	667.0	665.9
52.5°	625.8	624.7	620.4	616.1	616.1
55°	572.7	570.5	565.1	561.8	560.7
57.5°	516.3	511.9	506.5	501.1	502.2
60°	454.5	450.1	441.4	439.3	439.3
62.5°	394.8	389.4	380.7	377.4	379.6
65°	338.4	331.9	324.3	322.1	323.2
67.5°	286.3	279.8	271.2	271.2	270.1
70°	236.4	233.2	226.7	226.7	226.7
72.5°	192.0	190.9	186.6	186.6	185.5
75°	154.0	154.0	151.8	150.8	149.7
77.5°	121.5	121.5	120.4	119.3	117.1
80°	91.1	93.3	92.2	91.1	90.0
82.5°	62.9	65.1	65.1	62.9	62.9
85°	35.8	39.0	39.0	39.0	39.0
87.5°	11.9	16.3	17.4	17.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)