

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: P688893

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-075D-92765-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 2677.9 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.23 / 1.34
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

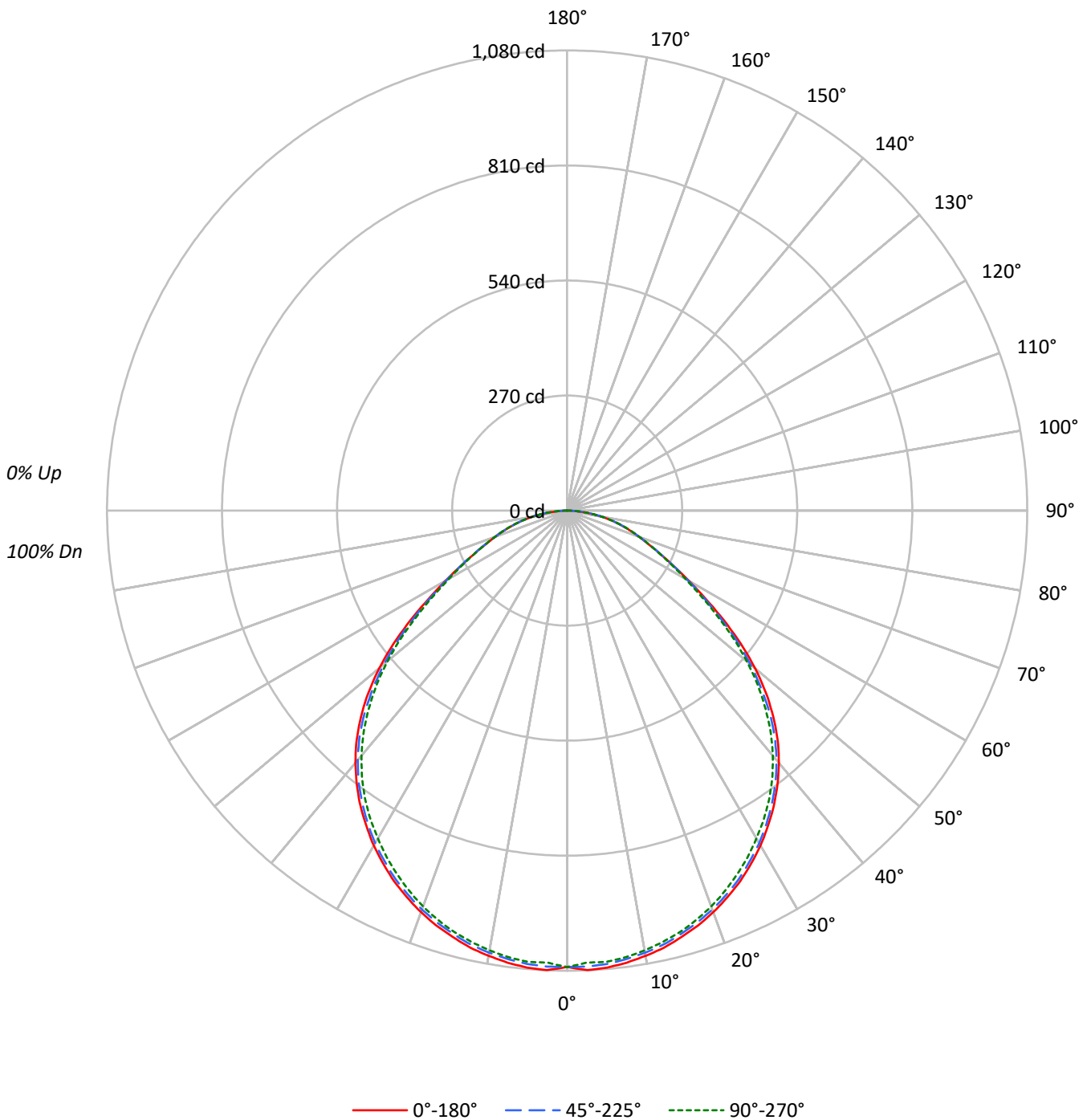
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	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	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33				33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10313	10313	10313
5°	10405	10325	10272
10°	10372	10300	10246
15°	10327	10262	10207
20°	10275	10208	10133
25°	10202	10134	10016
30°	10093	10021	9877
35°	9943	9857	9716
40°	9717	9612	9438
45°	9321	9158	8968
50°	8623	8416	8250
55°	7526	7355	7201
60°	6342	6289	6163
65°	5485	5506	5465
70°	5039	5064	5064
75°	4839	4839	4873
80°	4552	4602	4552
85°	3667	4076	4076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.8
10°-20°	290.0	10.8
20°-30°	437.3	16.3
30°-40°	521.2	19.5
40°-50°	514.2	19.2
50°-60°	392.2	14.6
60°-70°	242.1	9.0
70°-80°	137.9	5.2
80°-90°	41.6	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°	828.7	30.9
0°-40°	1349.9	50.4
0°-60°	2256.3	84.3
0°-90°	2677.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1077	1065	1068	1065	1063	102
15°	1036	1025	1030	1026	1024	293
25°	960	948	954	944	943	442
35°	846	836	839	828	827	528
45°	685	675	673	661	659	525
55°	448	441	438	431	429	402
65°	241	239	242	240	240	243
75°	130	130	130	131	131	137
85°	33	35	37	37	37	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1079.5	1067.5	1071.2	1068.4	1061.9
5°	1076.7	1064.7	1068.4	1064.7	1062.9
7.5°	1070.2	1058.2	1061.9	1058.2	1057.3
10°	1061.0	1049.9	1053.6	1049.9	1048.1
12.5°	1050.9	1038.9	1043.5	1038.9	1037.0
15°	1036.1	1025.0	1029.6	1025.9	1024.1
17.5°	1021.3	1009.3	1014.0	1010.3	1007.5
20°	1002.9	991.8	996.4	990.0	989.0
22.5°	982.6	971.5	976.1	966.9	966.9
25°	960.4	948.4	954.0	943.8	942.9
27.5°	934.6	923.5	928.2	918.0	917.1
30°	907.9	896.8	901.4	890.3	888.5
32.5°	877.4	867.3	871.0	859.9	859.0
35°	846.0	835.9	838.7	827.6	826.7
37.5°	811.0	801.8	803.6	791.6	790.7
40°	773.2	763.9	764.8	751.9	751.0
42.5°	731.6	722.4	721.5	708.6	707.6
45°	684.6	675.4	672.6	660.6	658.7
47.5°	632.9	623.7	618.2	608.0	607.1
50°	575.7	566.5	561.9	553.6	550.8
52.5°	513.9	504.7	501.0	493.6	490.8
55°	448.4	441.0	438.2	430.9	429.0
57.5°	385.7	380.1	379.2	371.8	370.9
60°	329.4	326.6	326.6	320.1	320.1
62.5°	281.4	279.6	281.4	277.7	276.8
65°	240.8	239.0	241.7	239.9	239.9
67.5°	206.7	206.7	208.5	207.6	207.6
70°	179.0	179.0	179.9	179.9	179.9
72.5°	154.1	153.2	155.9	155.9	155.0
75°	130.1	130.1	130.1	131.0	131.0
77.5°	106.1	106.1	107.0	107.0	106.1
80°	82.1	83.0	83.0	82.1	82.1
82.5°	58.1	59.0	59.0	59.0	58.1
85°	33.2	35.1	36.9	36.9	36.9
87.5°	12.0	15.7	18.5	18.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)