

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: P688899

Luminaire Tested: SQ4R-PR1-075D-93050-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688899
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-93050-1-UNV-STD-W-4_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2757.7 lumens
Efficiency: N/A
Efficacy: 83.8 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

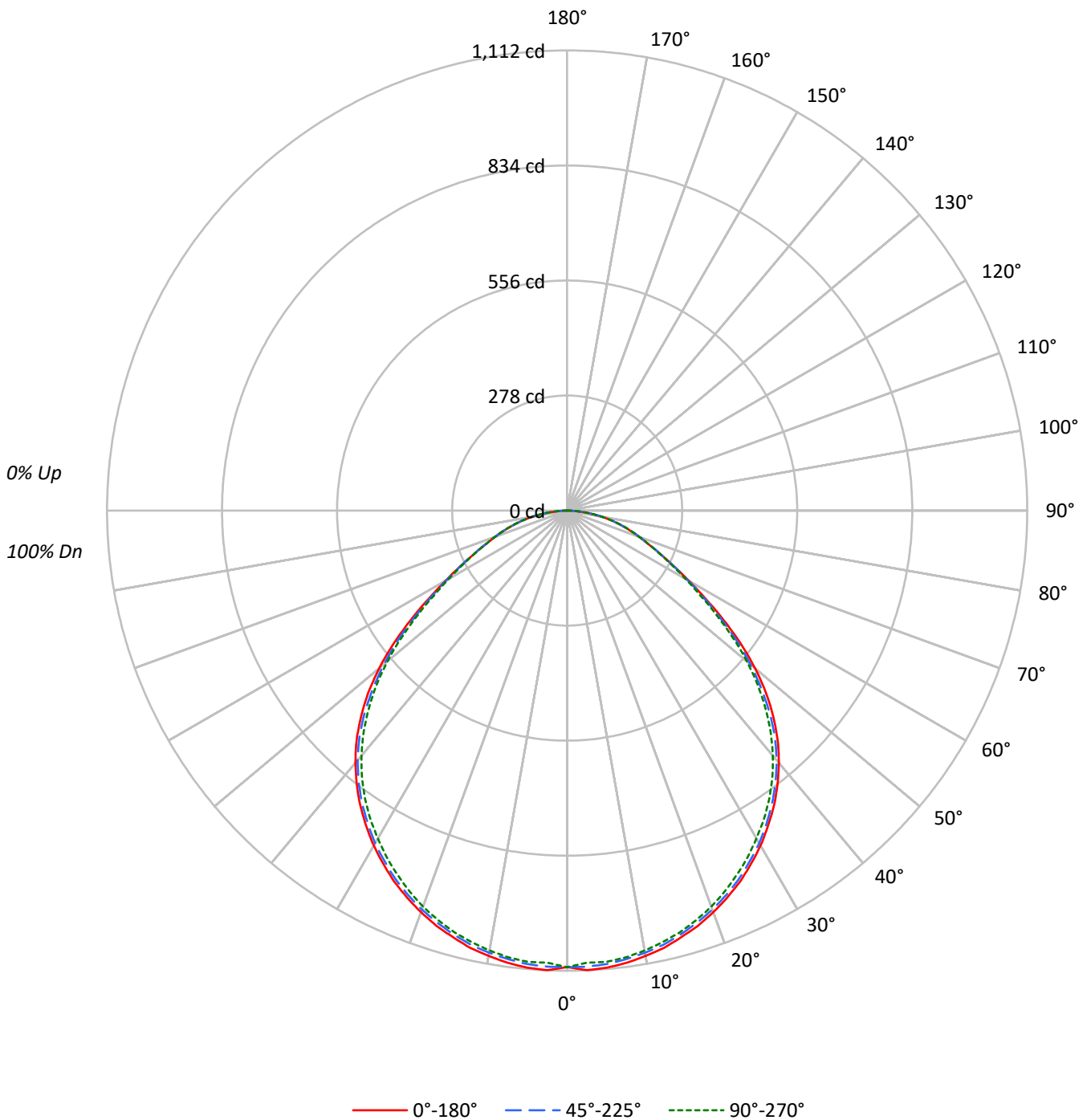
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10620	10620	10620
5°	10716	10632	10577
10°	10681	10607	10551
15°	10635	10568	10511
20°	10581	10513	10435
25°	10507	10436	10315
30°	10393	10320	10172
35°	10240	10151	10005
40°	10006	9900	9720
45°	9599	9430	9236
50°	8880	8666	8495
55°	7751	7575	7416
60°	6531	6475	6348
65°	5649	5670	5627
70°	5188	5216	5216
75°	4984	4984	5018
80°	4690	4740	4690
85°	3778	4198	4198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.8
10°-20°	298.6	10.8
20°-30°	450.4	16.3
30°-40°	536.8	19.5
40°-50°	529.5	19.2
50°-60°	403.9	14.6
60°-70°	249.3	9.0
70°-80°	142.1	5.2
80°-90°	42.9	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°	853.4	30.9
0°-40°	1390.1	50.4
0°-60°	2323.5	84.3
0°-90°	2757.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2757.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1109	1096	1100	1096	1094	105
15°	1067	1056	1060	1056	1055	301
25°	989	977	982	972	971	455
35°	871	861	864	852	851	544
45°	705	696	693	680	678	541
55°	462	454	451	444	442	414
65°	248	246	249	247	247	250
75°	134	134	134	135	135	141
85°	34	36	38	38	38	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.1	1103.1	1103.1	1103.1	1103.1
2.5°	1111.6	1099.3	1103.1	1100.2	1093.6
5°	1108.8	1096.4	1100.2	1096.4	1094.5
7.5°	1102.1	1089.8	1093.6	1089.8	1088.8
10°	1092.6	1081.2	1085.0	1081.2	1079.3
12.5°	1082.2	1069.8	1074.6	1069.8	1067.9
15°	1067.0	1055.6	1060.3	1056.5	1054.6
17.5°	1051.8	1039.4	1044.2	1040.4	1037.5
20°	1032.8	1021.4	1026.1	1019.5	1018.5
22.5°	1011.9	1000.5	1005.2	995.7	995.7
25°	989.1	976.7	982.4	972.0	971.0
27.5°	962.5	951.1	955.8	945.4	944.4
30°	934.9	923.5	928.3	916.9	915.0
32.5°	903.6	893.1	896.9	885.5	884.6
35°	871.3	860.8	863.7	852.3	851.3
37.5°	835.2	825.7	827.6	815.2	814.3
40°	796.2	786.7	787.7	774.4	773.4
42.5°	753.5	744.0	743.0	729.7	728.7
45°	705.0	695.5	692.6	680.3	678.4
47.5°	651.8	642.3	636.6	626.1	625.2
50°	592.9	583.4	578.6	570.1	567.2
52.5°	529.2	519.7	515.9	508.3	505.5
55°	461.8	454.2	451.3	443.7	441.8
57.5°	397.2	391.5	390.5	382.9	382.0
60°	339.2	336.3	336.3	329.7	329.7
62.5°	289.8	287.9	289.8	286.0	285.0
65°	248.0	246.1	248.9	247.0	247.0
67.5°	212.8	212.8	214.7	213.8	213.8
70°	184.3	184.3	185.3	185.3	185.3
72.5°	158.7	157.7	160.6	160.6	159.6
75°	134.0	134.0	134.0	134.9	134.9
77.5°	109.3	109.3	110.2	110.2	109.3
80°	84.6	85.5	85.5	84.6	84.6
82.5°	59.9	60.8	60.8	60.8	59.9
85°	34.2	36.1	38.0	38.0	38.0
87.5°	12.4	16.2	19.0	19.0	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)