

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: P688894

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688894
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_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2759.5 lumens
Efficiency: N/A
Efficacy: 84.1 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

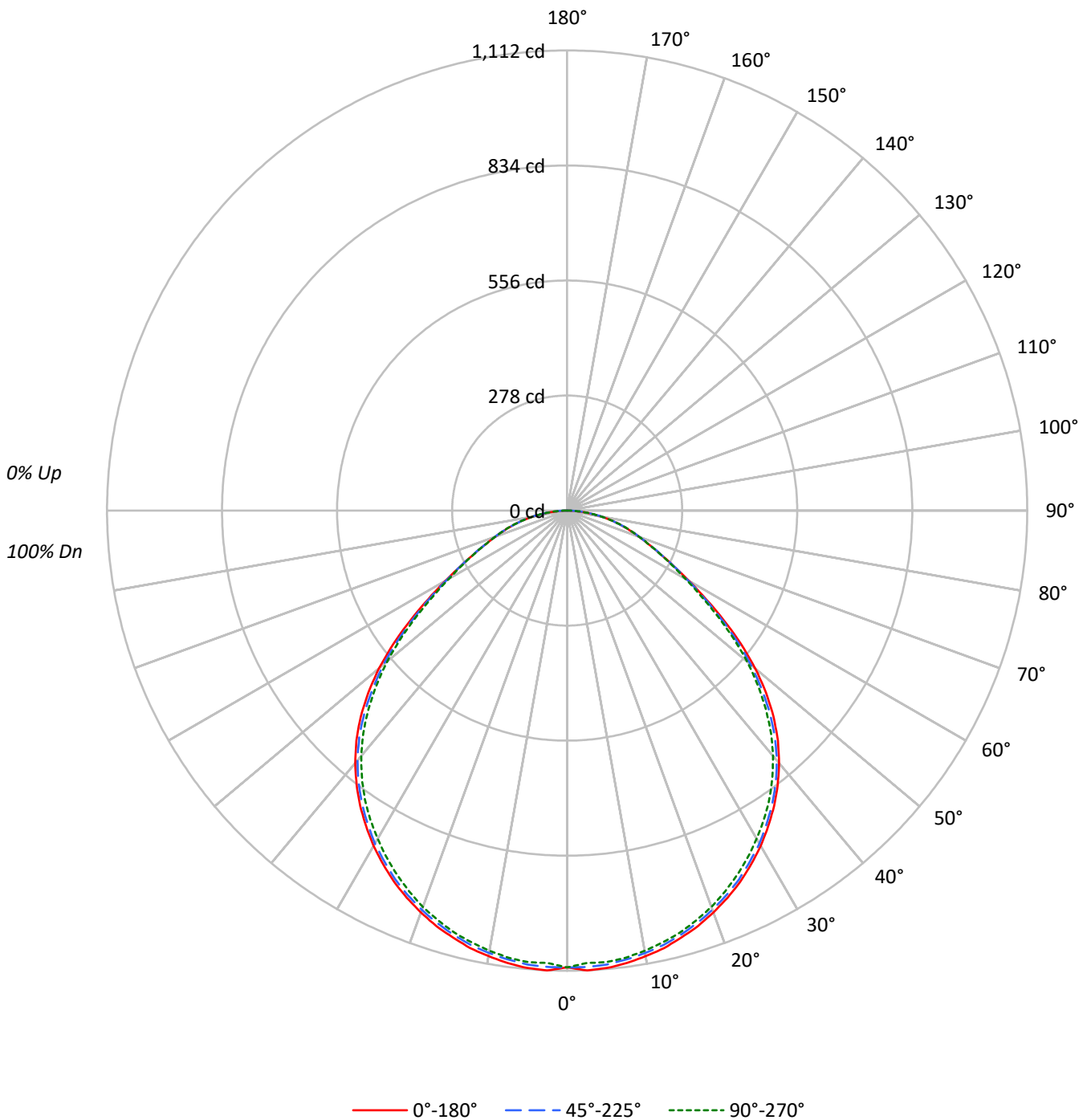
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10627	10627	10627
5°	10722	10640	10585
10°	10689	10614	10558
15°	10642	10575	10518
20°	10588	10520	10442
25°	10513	10443	10322
30°	10400	10326	10178
35°	10246	10157	10012
40°	10013	9906	9726
45°	9605	9437	9242
50°	8886	8672	8501
55°	7756	7580	7421
60°	6535	6481	6352
65°	5652	5675	5631
70°	5191	5219	5219
75°	4988	4988	5022
80°	4690	4746	4690
85°	3778	4198	4198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9605 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.8
10°-20°	298.8	10.8
20°-30°	450.7	16.3
30°-40°	537.1	19.5
40°-50°	529.8	19.2
50°-60°	404.2	14.6
60°-70°	249.5	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°	853.9	30.9
0°-40°	1391.0	50.4
0°-60°	2325.0	84.3
0°-90°	2759.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1110	1097	1101	1097	1095	105
15°	1068	1056	1061	1057	1055	301
25°	990	977	983	973	972	456
35°	872	861	864	853	852	544
45°	706	696	693	681	679	541
55°	462	454	452	444	442	414
65°	248	246	249	247	247	250
75°	134	134	134	135	135	142
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°	1103.8	1103.8	1103.8	1103.8	1103.8
2.5°	1112.4	1100.0	1103.8	1101.0	1094.3
5°	1109.5	1097.2	1101.0	1097.2	1095.3
7.5°	1102.9	1090.5	1094.3	1090.5	1089.5
10°	1093.4	1081.9	1085.7	1081.9	1080.0
12.5°	1082.9	1070.5	1075.3	1070.5	1068.6
15°	1067.7	1056.3	1061.0	1057.2	1055.3
17.5°	1052.5	1040.1	1044.9	1041.1	1038.2
20°	1033.5	1022.0	1026.8	1020.1	1019.2
22.5°	1012.5	1001.1	1005.9	996.4	996.4
25°	989.7	977.4	983.1	972.6	971.7
27.5°	963.1	951.7	956.4	946.0	945.0
30°	935.5	924.1	928.9	917.5	915.6
32.5°	904.2	893.7	897.5	886.1	885.1
35°	871.8	861.4	864.2	852.8	851.9
37.5°	835.7	826.2	828.1	815.7	814.8
40°	796.7	787.2	788.2	774.9	773.9
42.5°	753.9	744.4	743.5	730.2	729.2
45°	705.5	695.9	693.1	680.7	678.8
47.5°	652.2	642.7	637.0	626.5	625.6
50°	593.3	583.8	579.0	570.4	567.6
52.5°	529.6	520.1	516.3	508.6	505.8
55°	462.1	454.5	451.6	444.0	442.1
57.5°	397.4	391.7	390.8	383.1	382.2
60°	339.4	336.6	336.6	329.9	329.9
62.5°	290.0	288.1	290.0	286.2	285.2
65°	248.1	246.2	249.1	247.2	247.2
67.5°	213.0	213.0	214.9	213.9	213.9
70°	184.4	184.4	185.4	185.4	185.4
72.5°	158.8	157.8	160.7	160.7	159.7
75°	134.1	134.1	134.1	135.0	135.0
77.5°	109.3	109.3	110.3	110.3	109.3
80°	84.6	85.6	85.6	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)