

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: P688819

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688819
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_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102.3 lumens
Efficiency: N/A
Efficacy: 94.3 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

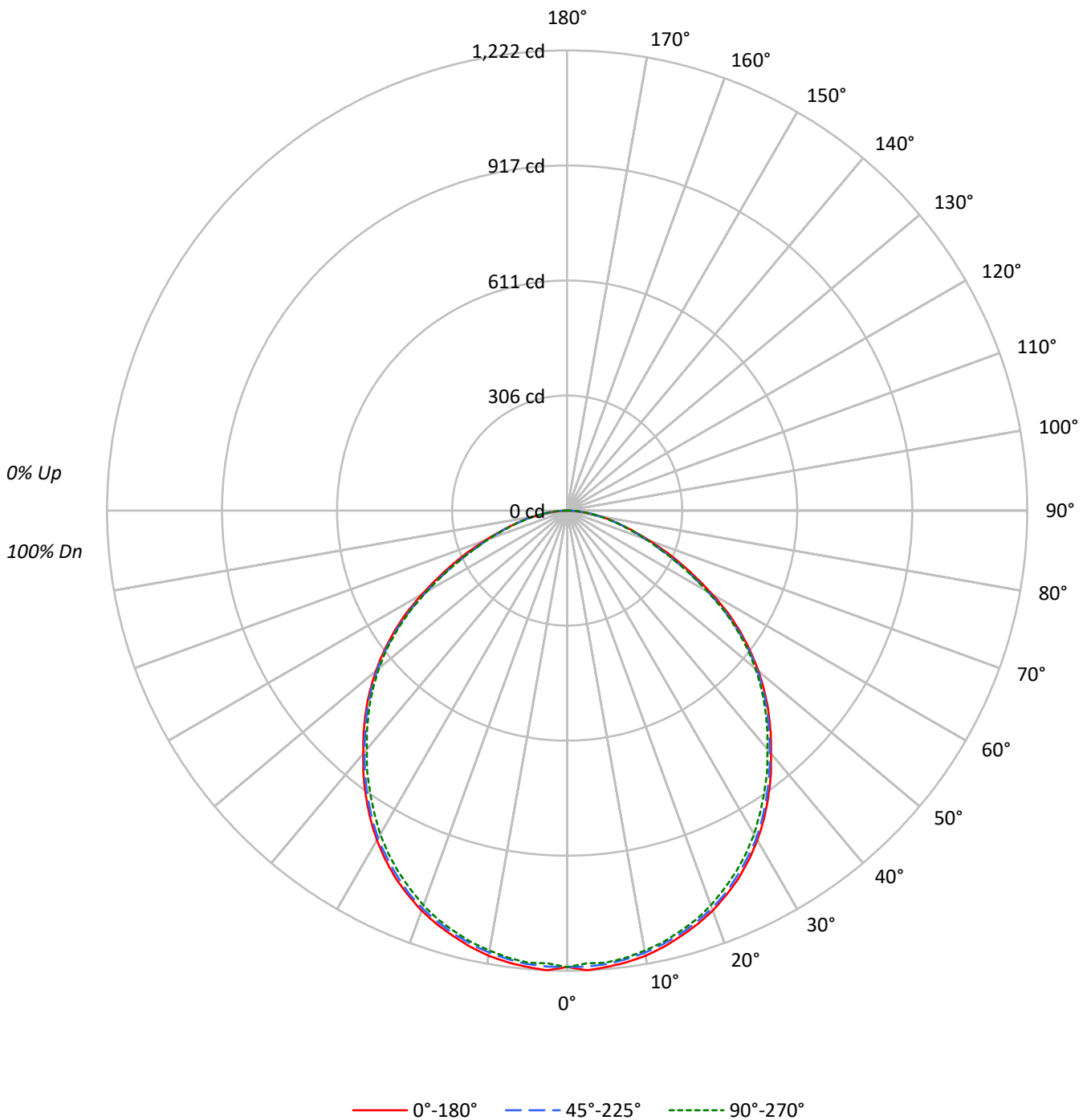
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11669	11669	11669
5°	11755	11684	11642
10°	11736	11653	11600
15°	11657	11595	11531
20°	11580	11516	11429
25°	11443	11364	11251
30°	11231	11172	11030
35°	10937	10862	10726
40°	10587	10520	10401
45°	10298	10226	10124
50°	9929	9866	9770
55°	9415	9290	9218
60°	8570	8326	8285
65°	7552	7235	7212
70°	6519	6249	6249
75°	5613	5531	5453
80°	4945	5006	4890
85°	3877	4220	4220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.7
10°-20°	327.5	10.6
20°-30°	490.5	15.8
30°-40°	575.3	18.5
40°-50°	577.1	18.6
50°-60°	492.7	15.9
60°-70°	320.2	10.3
70°-80°	160.4	5.2
80°-90°	44.0	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°	932.6	30.1
0°-40°	1507.9	48.6
0°-60°	2577.7	83.1
0°-90°	3102.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1216	1205	1209	1205	1205	116
15°	1170	1158	1163	1159	1157	330
25°	1077	1064	1070	1060	1059	496
35°	931	921	924	914	913	582
45°	756	751	751	744	744	583
55°	561	559	554	550	549	499
65°	332	325	318	316	317	330
75°	151	151	149	148	147	163
85°	35	38	38	38	38	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1221.7	1209.0	1212.1	1210.0	1203.6
5°	1216.4	1204.7	1209.0	1204.7	1204.7
7.5°	1210.0	1197.3	1201.5	1197.3	1197.3
10°	1200.5	1187.7	1192.0	1187.7	1186.6
12.5°	1186.6	1173.9	1179.2	1173.9	1173.9
15°	1169.6	1158.0	1163.3	1159.0	1156.9
17.5°	1151.6	1138.8	1145.2	1139.9	1138.8
20°	1130.3	1117.6	1124.0	1115.5	1115.5
22.5°	1104.8	1092.1	1099.5	1087.8	1087.8
25°	1077.2	1064.5	1069.8	1060.2	1059.2
27.5°	1045.4	1032.6	1037.9	1027.3	1027.3
30°	1010.3	998.6	1005.0	993.3	992.2
32.5°	972.0	961.4	965.7	954.0	952.9
35°	930.6	921.1	924.2	913.6	912.6
37.5°	888.1	877.5	881.7	872.2	872.2
40°	842.4	836.1	837.1	829.7	827.6
42.5°	799.9	792.5	793.6	786.1	786.1
45°	756.4	751.1	751.1	743.6	743.6
47.5°	710.7	706.5	705.4	699.0	699.0
50°	662.9	659.7	658.7	653.3	652.3
52.5°	613.0	611.9	607.7	603.4	603.4
55°	560.9	558.8	553.5	550.3	549.2
57.5°	505.7	501.4	496.1	490.8	491.9
60°	445.1	440.9	432.4	430.3	430.3
62.5°	386.7	381.4	372.9	369.7	371.8
65°	331.5	325.1	317.6	315.5	316.6
67.5°	280.5	274.1	265.6	265.6	264.5
70°	231.6	228.4	222.0	222.0	222.0
72.5°	188.0	187.0	182.7	182.7	181.7
75°	150.9	150.9	148.7	147.7	146.6
77.5°	119.0	119.0	117.9	116.9	114.7
80°	89.2	91.4	90.3	89.2	88.2
82.5°	61.6	63.7	63.7	61.6	61.6
85°	35.1	38.2	38.2	38.2	38.2
87.5°	11.7	15.9	17.0	17.0	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)