

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: P688814

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688814
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 2725.3 lumens
Efficiency: N/A
Efficacy: 83.3 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

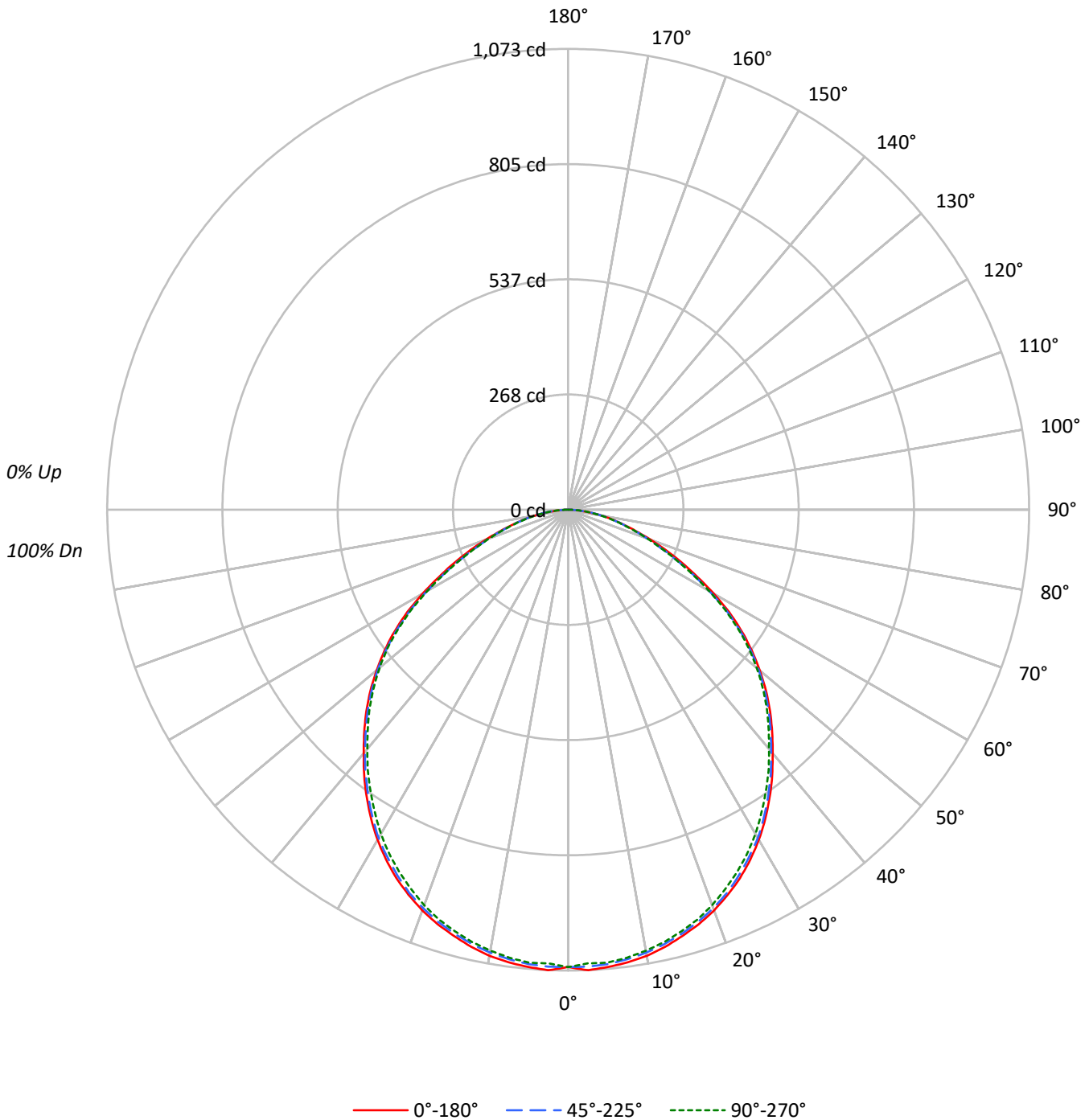
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	
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°	10252	10252	10252
5°	10327	10264	10228
10°	10310	10236	10191
15°	10241	10185	10129
20°	10173	10116	10039
25°	10052	9983	9884
30°	9866	9815	9690
35°	9608	9542	9422
40°	9301	9242	9137
45°	9047	8983	8895
50°	8723	8666	8582
55°	8272	8161	8099
60°	7529	7313	7278
65°	6634	6356	6335
70°	5728	5492	5492
75°	4929	4862	4791
80°	4347	4397	4297
85°	3402	3712	3712

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9047 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	3.7
10°-20°	287.7	10.6
20°-30°	430.9	15.8
30°-40°	505.4	18.5
40°-50°	506.9	18.6
50°-60°	432.9	15.9
60°-70°	281.3	10.3
70°-80°	140.9	5.2
80°-90°	38.6	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°	819.3	30.1
0°-40°	1324.7	48.6
0°-60°	2264.5	83.1
0°-90°	2725.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1069	1058	1062	1058	1058	102
15°	1028	1017	1022	1018	1016	290
25°	946	935	940	931	930	435
35°	818	809	812	803	802	511
45°	664	660	660	653	653	512
55°	493	491	486	483	482	438
65°	291	286	279	277	278	290
75°	132	132	131	130	129	143
85°	31	34	34	34	34	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.9	1064.9	1064.9	1064.9	1064.9
2.5°	1073.3	1062.1	1064.9	1063.0	1057.4
5°	1068.6	1058.3	1062.1	1058.3	1058.3
7.5°	1063.0	1051.8	1055.5	1051.8	1051.8
10°	1054.6	1043.4	1047.1	1043.4	1042.5
12.5°	1042.5	1031.3	1035.9	1031.3	1031.3
15°	1027.5	1017.3	1021.9	1018.2	1016.3
17.5°	1011.7	1000.5	1006.1	1001.4	1000.5
20°	993.0	981.8	987.4	979.9	979.9
22.5°	970.6	959.4	965.9	955.7	955.7
25°	946.3	935.1	939.8	931.4	930.5
27.5°	918.3	907.1	911.8	902.5	902.5
30°	887.5	877.3	882.9	872.6	871.7
32.5°	853.9	844.6	848.3	838.1	837.1
35°	817.5	809.1	811.9	802.6	801.7
37.5°	780.2	770.9	774.6	766.2	766.2
40°	740.1	734.5	735.4	728.9	727.0
42.5°	702.7	696.2	697.1	690.6	690.6
45°	664.5	659.8	659.8	653.3	653.3
47.5°	624.4	620.6	619.7	614.1	614.1
50°	582.4	579.6	578.6	574.0	573.0
52.5°	538.5	537.6	533.8	530.1	530.1
55°	492.8	490.9	486.2	483.4	482.5
57.5°	444.2	440.5	435.8	431.2	432.1
60°	391.0	387.3	379.8	378.0	378.0
62.5°	339.7	335.0	327.6	324.8	326.6
65°	291.2	285.6	279.0	277.2	278.1
67.5°	246.4	240.8	233.3	233.3	232.4
70°	203.5	200.7	195.1	195.1	195.1
72.5°	165.2	164.3	160.5	160.5	159.6
75°	132.5	132.5	130.7	129.7	128.8
77.5°	104.5	104.5	103.6	102.7	100.8
80°	78.4	80.3	79.3	78.4	77.5
82.5°	54.1	56.0	56.0	54.1	54.1
85°	30.8	33.6	33.6	33.6	33.6
87.5°	10.3	14.0	14.9	14.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)