

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: P688542

Luminaire Tested: SQ4R-PP3-075D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688542
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-830-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2857.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

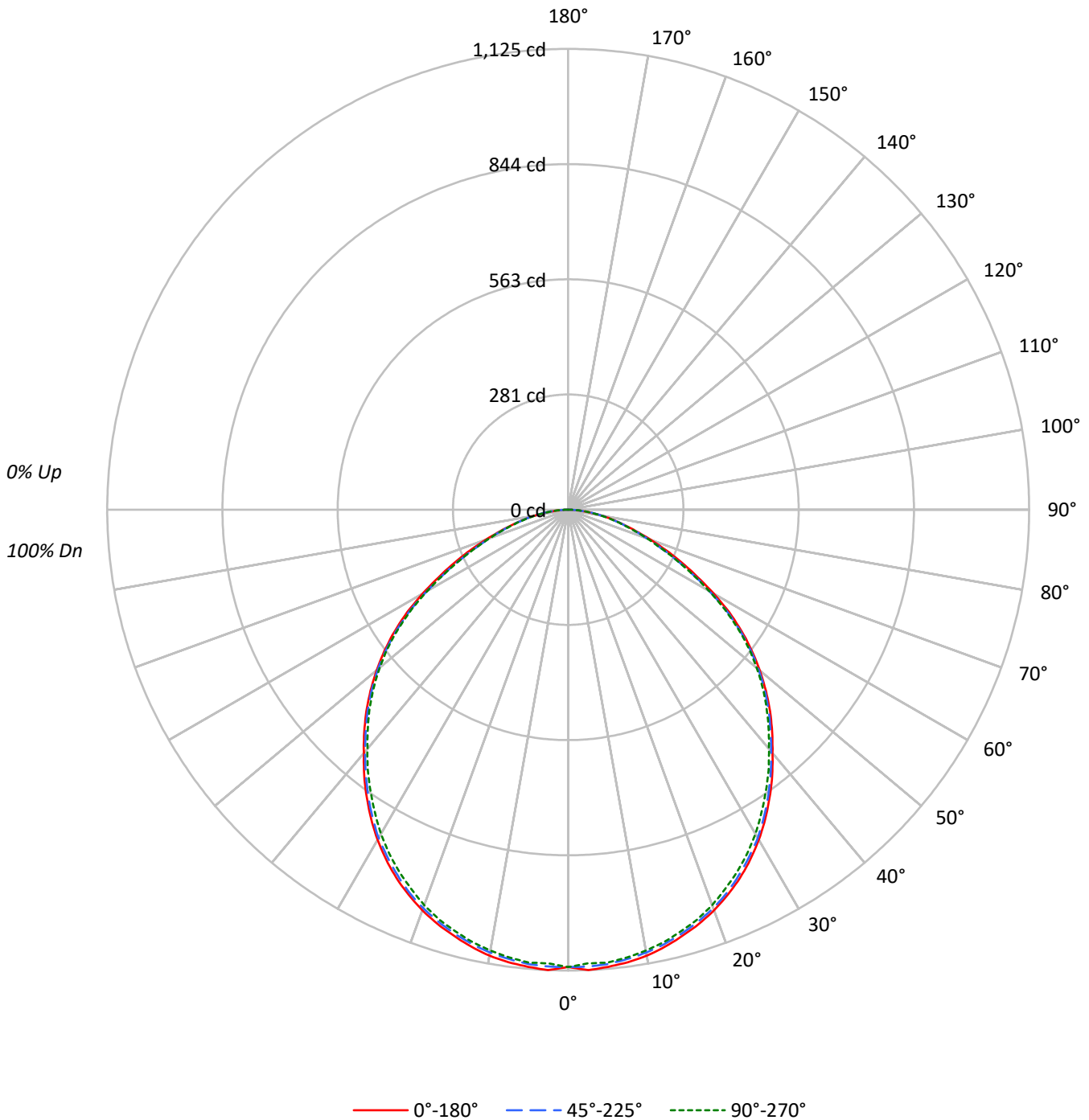
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	10747	10747	10747
5°	10826	10760	10722
10°	10808	10731	10683
15°	10736	10678	10619
20°	10665	10605	10525
25°	10539	10465	10361
30°	10343	10289	10158
35°	10072	10004	9877
40°	9750	9690	9578
45°	9484	9418	9325
50°	9144	9085	8997
55°	8671	8555	8490
60°	7892	7667	7629
65°	6955	6663	6643
70°	6004	5756	5756
75°	5167	5096	5022
80°	4557	4613	4502
85°	3568	3888	3888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	3.7
10°-20°	301.6	10.6
20°-30°	451.7	15.8
30°-40°	529.8	18.5
40°-50°	531.4	18.6
50°-60°	453.8	15.9
60°-70°	294.9	10.3
70°-80°	147.7	5.2
80°-90°	40.5	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°	858.9	30.1
0°-40°	1388.7	48.6
0°-60°	2373.9	83.1
0°-90°	2857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1120	1110	1113	1110	1110	106
15°	1077	1066	1071	1067	1065	304
25°	992	980	985	976	975	457
35°	857	848	851	841	840	536
45°	697	692	692	685	685	537
55°	517	515	510	507	506	460
65°	305	299	292	291	292	304
75°	139	139	137	136	135	150
85°	32	35	35	35	35	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.3	1116.3	1116.3	1116.3	1116.3
2.5°	1125.1	1113.4	1116.3	1114.4	1108.5
5°	1120.2	1109.5	1113.4	1109.5	1109.5
7.5°	1114.4	1102.6	1106.5	1102.6	1102.6
10°	1105.6	1093.8	1097.7	1093.8	1092.8
12.5°	1092.8	1081.1	1086.0	1081.1	1081.1
15°	1077.2	1066.4	1071.3	1067.4	1065.4
17.5°	1060.5	1048.8	1054.7	1049.8	1048.8
20°	1041.0	1029.2	1035.1	1027.3	1027.3
22.5°	1017.5	1005.8	1012.6	1001.8	1001.8
25°	992.1	980.3	985.2	976.4	975.4
27.5°	962.7	951.0	955.9	946.1	946.1
30°	930.4	919.7	925.5	914.8	913.8
32.5°	895.2	885.4	889.3	878.6	877.6
35°	857.0	848.2	851.2	841.4	840.4
37.5°	817.9	808.1	812.0	803.2	803.2
40°	775.8	770.0	771.0	764.1	762.1
42.5°	736.7	729.9	730.8	724.0	724.0
45°	696.6	691.7	691.7	684.9	684.9
47.5°	654.5	650.6	649.6	643.8	643.8
50°	610.5	607.6	606.6	601.7	600.7
52.5°	564.5	563.5	559.6	555.7	555.7
55°	516.6	514.6	509.7	506.8	505.8
57.5°	465.7	461.8	456.9	452.0	453.0
60°	409.9	406.0	398.2	396.2	396.2
62.5°	356.1	351.2	343.4	340.5	342.4
65°	305.3	299.4	292.5	290.6	291.6
67.5°	258.3	252.4	244.6	244.6	243.6
70°	213.3	210.3	204.5	204.5	204.5
72.5°	173.2	172.2	168.3	168.3	167.3
75°	138.9	138.9	137.0	136.0	135.0
77.5°	109.6	109.6	108.6	107.6	105.7
80°	82.2	84.1	83.2	82.2	81.2
82.5°	56.7	58.7	58.7	56.7	56.7
85°	32.3	35.2	35.2	35.2	35.2
87.5°	10.8	14.7	15.7	15.7	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)