

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: P688547

Luminaire Tested: SQ4R-PP3-075D-940-1-UNV-STD-W-4

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688547
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-940-1-UNV-STD-W-4
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM 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: 2498.4 lumens
Efficiency: N/A
Efficacy: 93.2 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

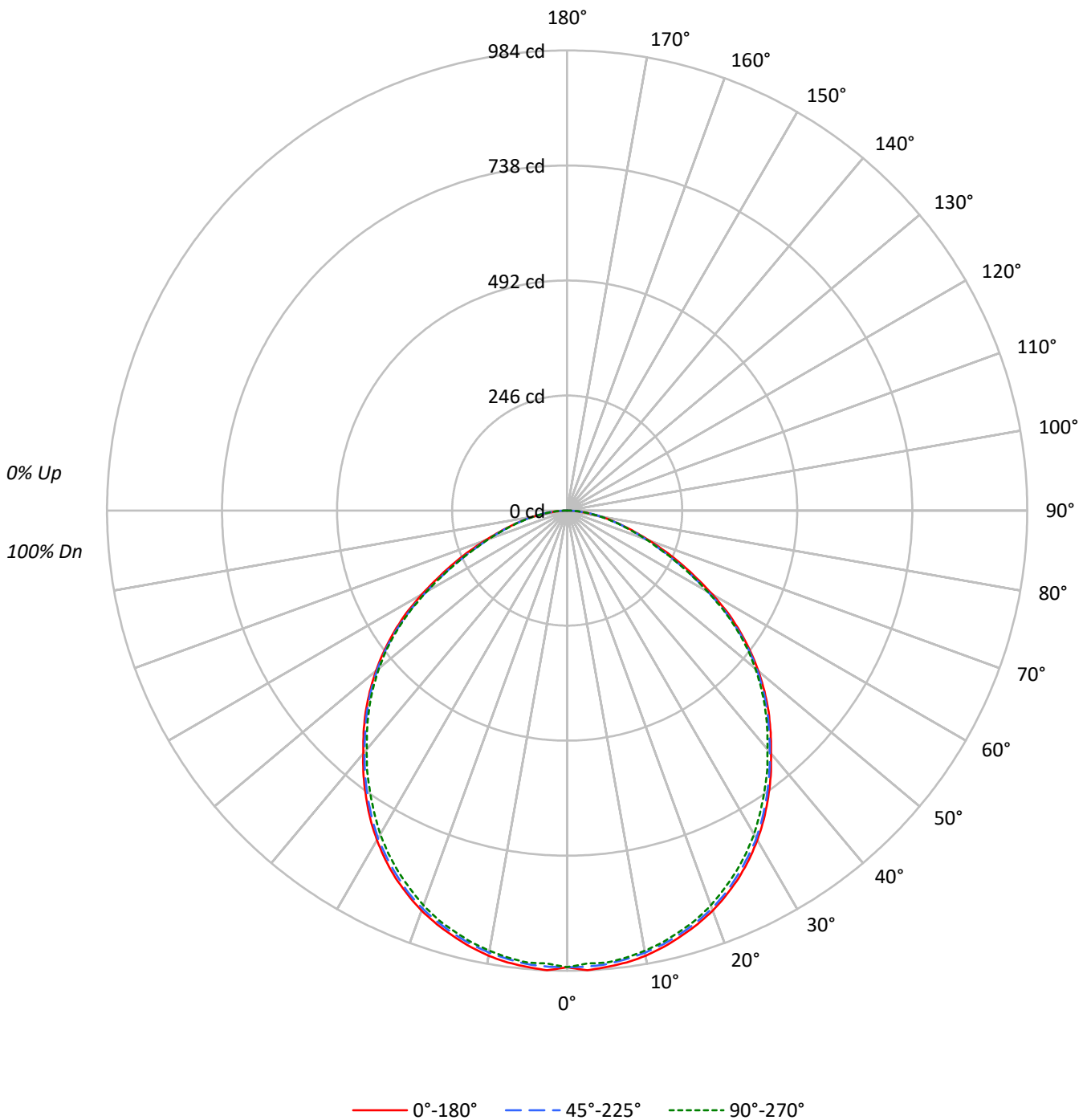
Input Watts (W): 26.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	9398	9398	9398
5°	9467	9409	9376
10°	9451	9384	9343
15°	9389	9337	9286
20°	9326	9274	9203
25°	9215	9152	9061
30°	9045	8998	8883
35°	8809	8748	8637
40°	8527	8473	8376
45°	8294	8236	8154
50°	7996	7944	7868
55°	7582	7481	7424
60°	6903	6704	6672
65°	6080	5827	5809
70°	5250	5033	5033
75°	4519	4456	4393
80°	3986	4031	3936
85°	3115	3402	3402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.7
10°-20°	263.7	10.6
20°-30°	395.0	15.8
30°-40°	463.3	18.5
40°-50°	464.7	18.6
50°-60°	396.8	15.9
60°-70°	257.9	10.3
70°-80°	129.2	5.2
80°-90°	35.4	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°	751.1	30.1
0°-40°	1214.4	48.6
0°-60°	2076.0	83.1
0°-90°	2498.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	980	970	974	970	970	93
15°	942	933	937	933	932	266
25°	868	857	862	854	853	399
35°	750	742	744	736	735	468
45°	609	605	605	599	599	469
55°	452	450	446	443	442	402
65°	267	262	256	254	255	266
75°	122	122	120	119	118	131
85°	28	31	31	31	31	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	976.2	976.2	976.2	976.2	976.2
2.5°	983.9	973.6	976.2	974.5	969.4
5°	979.6	970.2	973.6	970.2	970.2
7.5°	974.5	964.2	967.6	964.2	964.2
10°	966.8	956.5	959.9	956.5	955.7
12.5°	955.7	945.4	949.7	945.4	945.4
15°	942.0	932.6	936.8	933.4	931.7
17.5°	927.4	917.2	922.3	918.0	917.2
20°	910.3	900.1	905.2	898.3	898.3
22.5°	889.8	879.5	885.5	876.1	876.1
25°	867.5	857.3	861.6	853.9	853.0
27.5°	841.9	831.6	835.9	827.3	827.3
30°	813.6	804.2	809.4	800.0	799.1
32.5°	782.8	774.3	777.7	768.3	767.4
35°	749.5	741.8	744.3	735.8	734.9
37.5°	715.2	706.7	710.1	702.4	702.4
40°	678.5	673.3	674.2	668.2	666.5
42.5°	644.2	638.2	639.1	633.1	633.1
45°	609.2	604.9	604.9	598.9	598.9
47.5°	572.4	568.9	568.1	563.0	563.0
50°	533.9	531.3	530.4	526.2	525.3
52.5°	493.7	492.8	489.4	486.0	486.0
55°	451.7	450.0	445.7	443.2	442.3
57.5°	407.2	403.8	399.5	395.3	396.1
60°	358.5	355.1	348.2	346.5	346.5
62.5°	311.4	307.1	300.3	297.7	299.4
65°	266.9	261.8	255.8	254.1	255.0
67.5°	225.9	220.7	213.9	213.9	213.0
70°	186.5	183.9	178.8	178.8	178.8
72.5°	151.4	150.6	147.2	147.2	146.3
75°	121.5	121.5	119.8	118.9	118.1
77.5°	95.8	95.8	95.0	94.1	92.4
80°	71.9	73.6	72.7	71.9	71.0
82.5°	49.6	51.3	51.3	49.6	49.6
85°	28.2	30.8	30.8	30.8	30.8
87.5°	9.4	12.8	13.7	13.7	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)