

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: P688892

Luminaire Tested: SQ4R-PR1-075D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688892
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 2581.1 lumens
Efficiency: N/A
Efficacy: 78.9 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

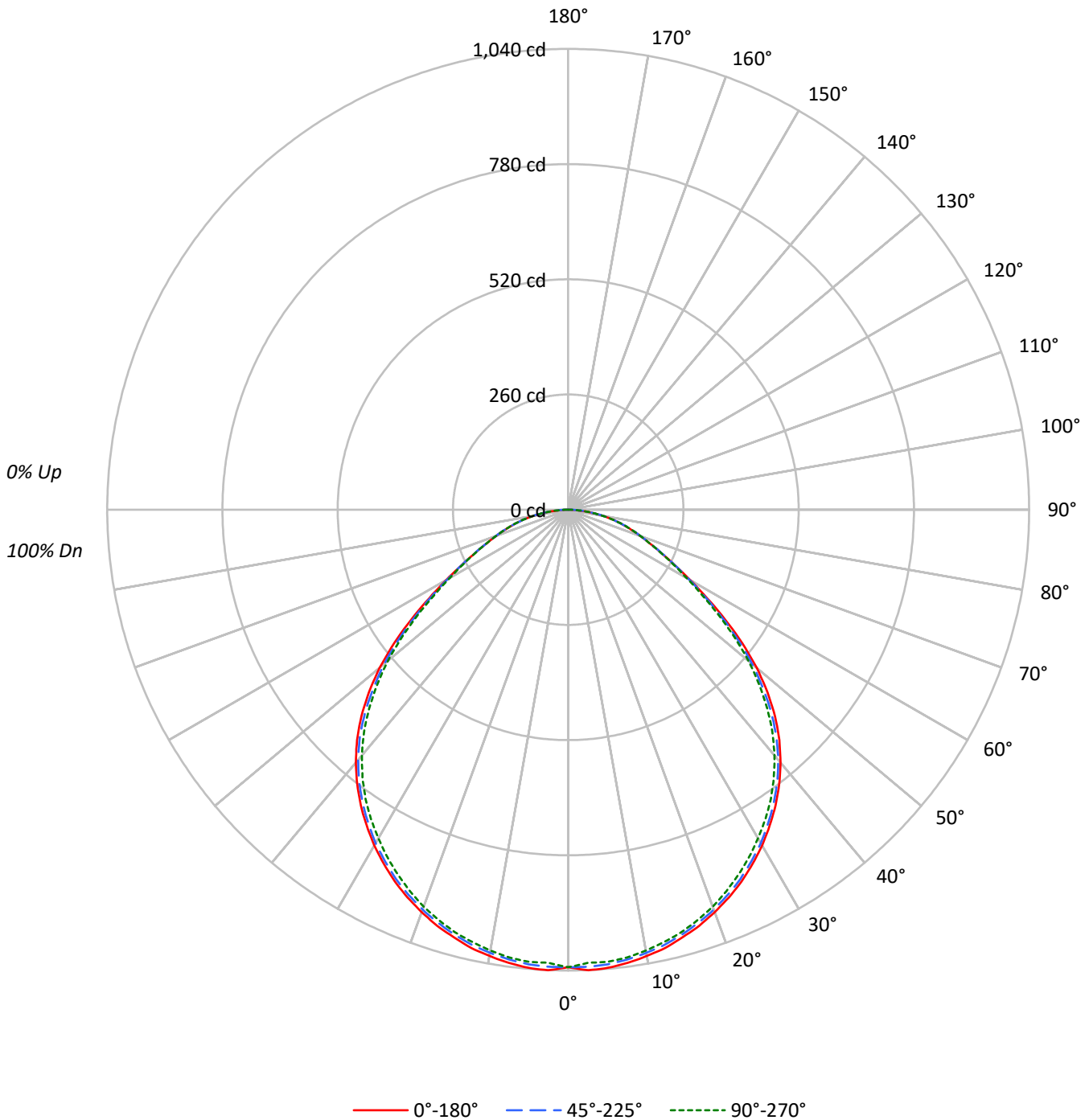
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9939	9939	9939
5°	10029	9952	9900
10°	9998	9927	9876
15°	9953	9891	9838
20°	9903	9839	9767
25°	9833	9767	9654
30°	9727	9658	9520
35°	9584	9500	9365
40°	9365	9265	9098
45°	8983	8827	8644
50°	8311	8112	7952
55°	7254	7090	6940
60°	6113	6061	5942
65°	5287	5308	5267
70°	4856	4881	4881
75°	4665	4665	4698
80°	4385	4435	4385
85°	3535	3932	3932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.8
10°-20°	279.5	10.8
20°-30°	421.5	16.3
30°-40°	502.4	19.5
40°-50°	495.6	19.2
50°-60°	378.0	14.6
60°-70°	233.3	9.0
70°-80°	133.0	5.2
80°-90°	40.1	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°	798.7	30.9
0°-40°	1301.1	50.4
0°-60°	2174.7	84.3
0°-90°	2581.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2581.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1038	1026	1030	1026	1024	99
15°	999	988	992	989	987	282
25°	926	914	920	910	909	426
35°	816	806	808	798	797	509
45°	660	651	648	637	635	506
55°	432	425	422	415	414	387
65°	232	230	233	231	231	234
75°	125	125	125	126	126	132
85°	32	34	36	36	36	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.4	1032.4	1032.4	1032.4	1032.4
2.5°	1040.4	1028.9	1032.4	1029.8	1023.5
5°	1037.8	1026.2	1029.8	1026.2	1024.4
7.5°	1031.5	1020.0	1023.5	1020.0	1019.1
10°	1022.7	1012.0	1015.5	1012.0	1010.2
12.5°	1012.9	1001.3	1005.8	1001.3	999.5
15°	998.6	988.0	992.4	988.9	987.1
17.5°	984.4	972.9	977.3	973.7	971.1
20°	966.6	956.0	960.4	954.2	953.3
22.5°	947.1	936.4	940.8	932.0	932.0
25°	925.7	914.2	919.5	909.7	908.8
27.5°	900.8	890.2	894.6	884.8	883.9
30°	875.0	864.4	868.8	858.1	856.4
32.5°	845.7	835.9	839.5	828.8	827.9
35°	815.5	805.7	808.3	797.7	796.8
37.5°	781.7	772.8	774.6	763.0	762.1
40°	745.2	736.3	737.2	724.8	723.9
42.5°	705.2	696.3	695.4	683.0	682.1
45°	659.8	650.9	648.3	636.7	634.9
47.5°	610.0	601.1	595.8	586.0	585.1
50°	554.9	546.0	541.6	533.6	530.9
52.5°	495.3	486.4	482.9	475.8	473.1
55°	432.2	425.1	422.4	415.3	413.5
57.5°	371.7	366.4	365.5	358.4	357.5
60°	317.5	314.8	314.8	308.6	308.6
62.5°	271.2	269.4	271.2	267.7	266.8
65°	232.1	230.3	233.0	231.2	231.2
67.5°	199.2	199.2	201.0	200.1	200.1
70°	172.5	172.5	173.4	173.4	173.4
72.5°	148.5	147.6	150.3	150.3	149.4
75°	125.4	125.4	125.4	126.3	126.3
77.5°	102.3	102.3	103.2	103.2	102.3
80°	79.1	80.0	80.0	79.1	79.1
82.5°	56.0	56.9	56.9	56.9	56.0
85°	32.0	33.8	35.6	35.6	35.6
87.5°	11.6	15.1	17.8	17.8	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)