

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: P688818

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_5000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688818
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_5000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3033.4 lumens
Efficiency: N/A
Efficacy: 92.2 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

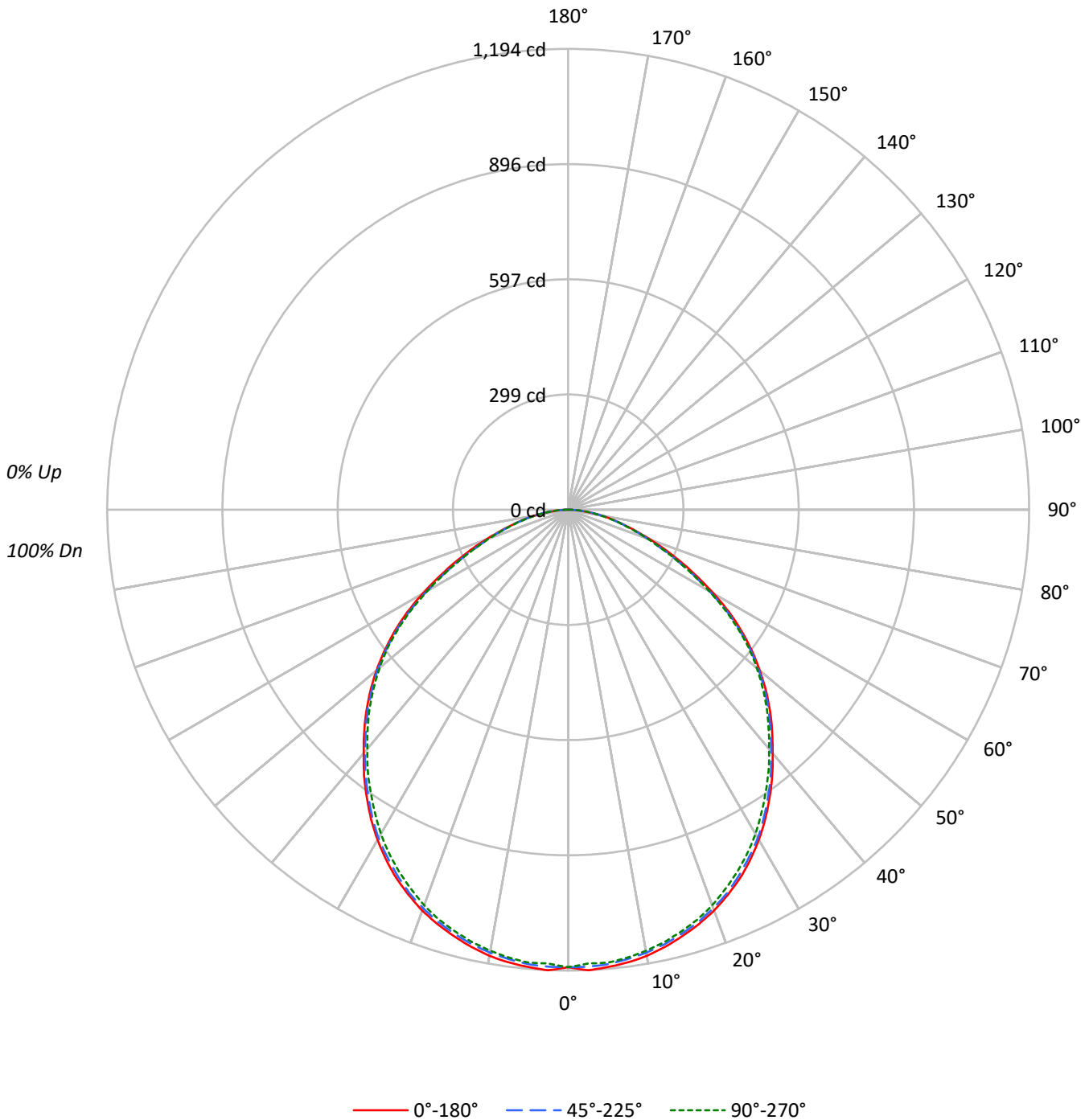
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11410	11410	11410
5°	11495	11424	11383
10°	11475	11394	11343
15°	11398	11336	11275
20°	11323	11259	11174
25°	11189	11111	11001
30°	10981	10923	10785
35°	10694	10621	10487
40°	10352	10287	10170
45°	10070	9999	9900
50°	9708	9646	9553
55°	9206	9084	9013
60°	8380	8141	8100
65°	7383	7076	7050
70°	6373	6111	6111
75°	5487	5408	5330
80°	4840	4895	4779
85°	3789	4131	4131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.7
10°-20°	320.2	10.6
20°-30°	479.6	15.8
30°-40°	562.5	18.5
40°-50°	564.2	18.6
50°-60°	481.8	15.9
60°-70°	313.1	10.3
70°-80°	156.8	5.2
80°-90°	43.0	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°	911.9	30.1
0°-40°	1474.4	48.6
0°-60°	2520.4	83.1
0°-90°	3033.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3033.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1189	1178	1182	1178	1178	113
15°	1144	1132	1137	1133	1131	323
25°	1053	1041	1046	1037	1036	485
35°	910	901	904	893	892	569
45°	740	734	734	727	727	570
55°	548	546	541	538	537	488
65°	324	318	311	308	310	323
75°	148	148	145	144	143	159
85°	34	37	37	37	37	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.2	1185.2	1185.2	1185.2	1185.2
2.5°	1194.5	1182.1	1185.2	1183.1	1176.9
5°	1189.4	1177.9	1182.1	1177.9	1177.9
7.5°	1183.1	1170.7	1174.8	1170.7	1170.7
10°	1173.8	1161.3	1165.5	1161.3	1160.3
12.5°	1160.3	1147.8	1153.0	1147.8	1147.8
15°	1143.6	1132.2	1137.4	1133.3	1131.2
17.5°	1126.0	1113.5	1119.8	1114.6	1113.5
20°	1105.2	1092.8	1099.0	1090.7	1090.7
22.5°	1080.3	1067.8	1075.1	1063.7	1063.7
25°	1053.3	1040.8	1046.0	1036.7	1035.6
27.5°	1022.1	1009.7	1014.8	1004.5	1004.5
30°	987.8	976.4	982.6	971.2	970.2
32.5°	950.4	940.1	944.2	932.8	931.7
35°	909.9	900.6	903.7	893.3	892.3
37.5°	868.4	858.0	862.2	852.8	852.8
40°	823.7	817.5	818.5	811.3	809.2
42.5°	782.2	774.9	775.9	768.7	768.7
45°	739.6	734.4	734.4	727.1	727.1
47.5°	694.9	690.8	689.7	683.5	683.5
50°	648.2	645.1	644.0	638.8	637.8
52.5°	599.4	598.3	594.2	590.0	590.0
55°	548.5	546.4	541.2	538.1	537.0
57.5°	494.4	490.3	485.1	479.9	480.9
60°	435.2	431.1	422.8	420.7	420.7
62.5°	378.1	372.9	364.6	361.5	363.6
65°	324.1	317.9	310.6	308.5	309.5
67.5°	274.2	268.0	259.7	259.7	258.6
70°	226.4	223.3	217.1	217.1	217.1
72.5°	183.9	182.8	178.7	178.7	177.6
75°	147.5	147.5	145.4	144.4	143.3
77.5°	116.3	116.3	115.3	114.3	112.2
80°	87.3	89.3	88.3	87.3	86.2
82.5°	60.2	62.3	62.3	60.2	60.2
85°	34.3	37.4	37.4	37.4	37.4
87.5°	11.4	15.6	16.6	16.6	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)