

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: P688817

Luminaire Tested: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688817
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2974.9 lumens
Efficiency: N/A
Efficacy: 90.4 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

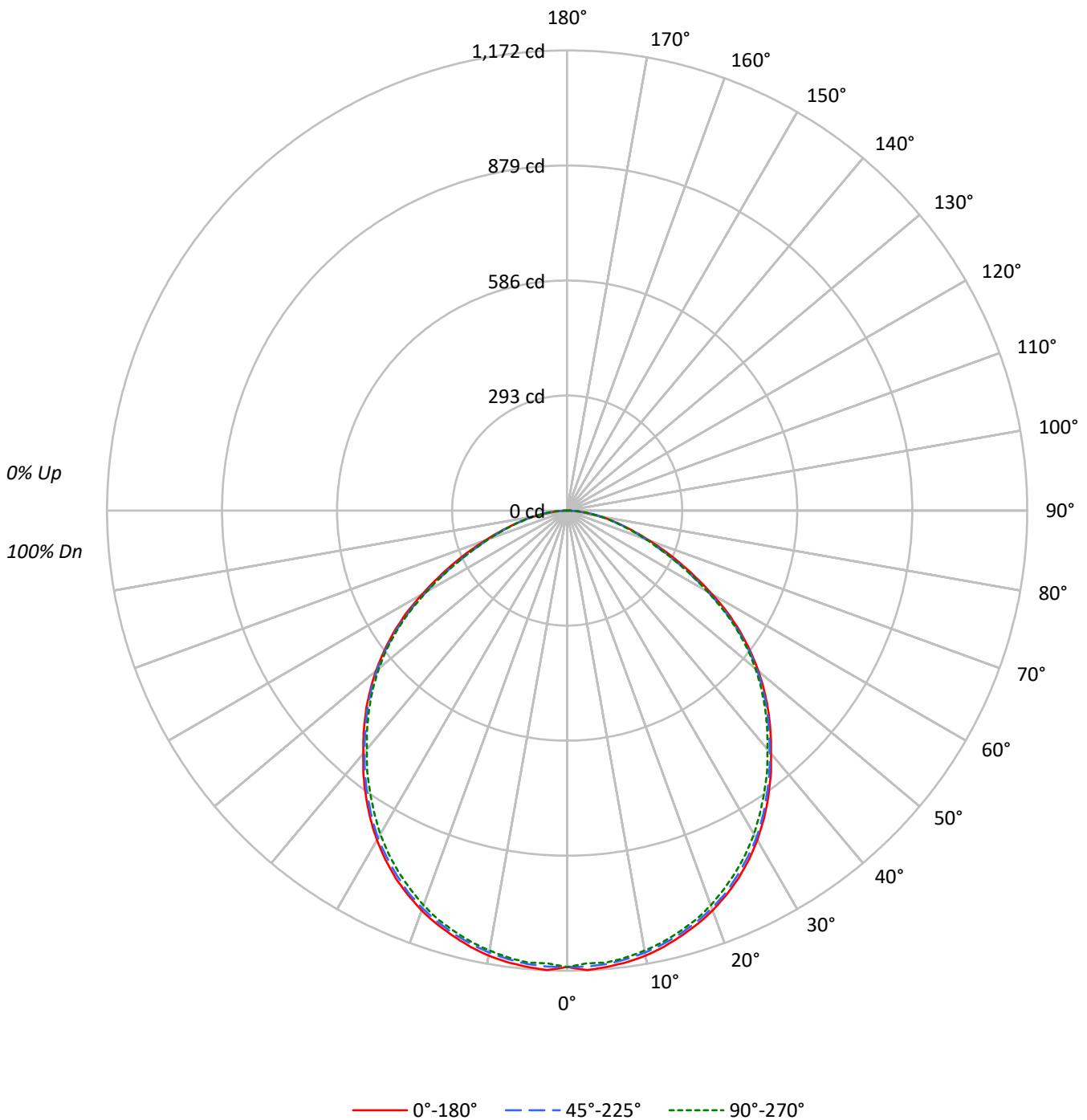
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P688817

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_4500K

Luminous Intensity Polar Plot



TEST NUMBER: P688817

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_4500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	11191	11191	11191
5°	11273	11204	11164
10°	11254	11174	11124
15°	11179	11118	11057
20°	11105	11042	10959
25°	10973	10898	10789
30°	10770	10713	10578
35°	10488	10417	10285
40°	10153	10089	9974
45°	9875	9806	9709
50°	9521	9460	9368
55°	9029	8909	8841
60°	8218	7983	7944
65°	7240	6939	6916
70°	6252	5993	5993
75°	5382	5304	5230
80°	4746	4801	4690
85°	3712	4054	4054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9875 cd/sqm

TEST NUMBER: P688817

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	3.7
10°-20°	314.0	10.6
20°-30°	470.4	15.8
30°-40°	551.7	18.5
40°-50°	553.4	18.6
50°-60°	472.5	15.9
60°-70°	307.1	10.3
70°-80°	153.8	5.2
80°-90°	42.2	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°	894.4	30.1
0°-40°	1446.0	48.6
0°-60°	2471.9	83.1
0°-90°	2974.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2974.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1166	1155	1159	1155	1155	111
15°	1122	1110	1116	1111	1109	317
25°	1033	1021	1026	1017	1016	475
35°	892	883	886	876	875	558
45°	725	720	720	713	713	559
55°	538	536	531	528	527	479
65°	318	312	305	303	304	317
75°	145	145	143	142	141	156
85°	34	37	37	37	37	40
90°	0	0	0	0	0	

TEST NUMBER: P688817

CATALOG NUMBER: SQ4R-PP3-075D-92765-1-UNV-STD-W-4_4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.4	1162.4	1162.4	1162.4	1162.4
2.5°	1171.5	1159.3	1162.4	1160.3	1154.2
5°	1166.5	1155.2	1159.3	1155.2	1155.2
7.5°	1160.3	1148.1	1152.2	1148.1	1148.1
10°	1151.2	1138.9	1143.0	1138.9	1137.9
12.5°	1137.9	1125.7	1130.8	1125.7	1125.7
15°	1121.6	1110.4	1115.5	1111.4	1109.4
17.5°	1104.3	1092.1	1098.2	1093.1	1092.1
20°	1083.9	1071.7	1077.8	1069.7	1069.7
22.5°	1059.5	1047.3	1054.4	1043.2	1043.2
25°	1033.0	1020.8	1025.9	1016.7	1015.7
27.5°	1002.4	990.2	995.3	985.1	985.1
30°	968.8	957.6	963.7	952.5	951.5
32.5°	932.1	922.0	926.0	914.8	913.8
35°	892.4	883.2	886.3	876.1	875.1
37.5°	851.7	841.5	845.5	836.4	836.4
40°	807.9	801.7	802.8	795.6	793.6
42.5°	767.1	760.0	761.0	753.9	753.9
45°	725.3	720.2	720.2	713.1	713.1
47.5°	681.5	677.5	676.4	670.3	670.3
50°	635.7	632.6	631.6	626.5	625.5
52.5°	587.8	586.8	582.7	578.6	578.6
55°	537.9	535.9	530.8	527.7	526.7
57.5°	484.9	480.8	475.7	470.7	471.7
60°	426.8	422.8	414.6	412.6	412.6
62.5°	370.8	365.7	357.6	354.5	356.6
65°	317.8	311.7	304.6	302.6	303.6
67.5°	268.9	262.8	254.7	254.7	253.7
70°	222.1	219.0	212.9	212.9	212.9
72.5°	180.3	179.3	175.2	175.2	174.2
75°	144.7	144.7	142.6	141.6	140.6
77.5°	114.1	114.1	113.1	112.1	110.0
80°	85.6	87.6	86.6	85.6	84.6
82.5°	59.1	61.1	61.1	59.1	59.1
85°	33.6	36.7	36.7	36.7	36.7
87.5°	11.2	15.3	16.3	16.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)