

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: P688822

Luminaire Tested: SQ4R-PP3-075D-93050-1-UNV-STD-W-4_3500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688822
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-93050-1-UNV-STD-W-4_3500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2985.1 lumens
Efficiency: N/A
Efficacy: 90.5 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

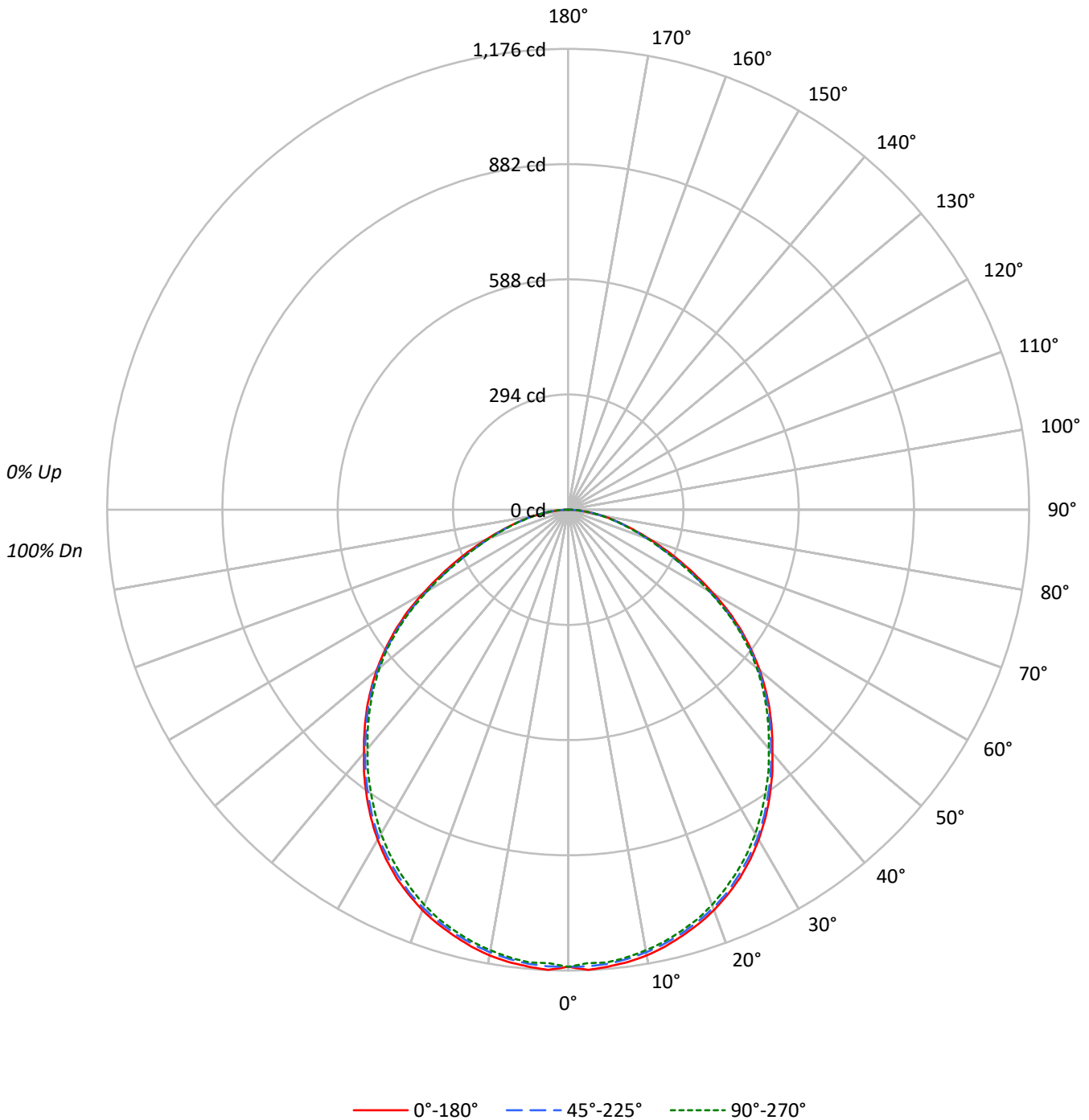
Input Watts (W): 33
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	11228	11228	11228
5°	11311	11242	11203
10°	11292	11212	11162
15°	11217	11156	11095
20°	11143	11080	10996
25°	11010	10935	10825
30°	10807	10750	10613
35°	10523	10452	10320
40°	10187	10123	10008
45°	9909	9840	9742
50°	9554	9493	9400
55°	9059	8940	8871
60°	8247	8010	7971
65°	7265	6962	6939
70°	6271	6013	6013
75°	5401	5323	5249
80°	4762	4818	4701
85°	3723	4065	4065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9909 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.7
10°-20°	315.1	10.6
20°-30°	472.0	15.8
30°-40°	553.5	18.5
40°-50°	555.3	18.6
50°-60°	474.1	15.9
60°-70°	308.1	10.3
70°-80°	154.3	5.2
80°-90°	42.3	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
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0°-30°	897.4	30.1
0°-40°	1450.9	48.6
0°-60°	2480.3	83.1
0°-90°	2985.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2985.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1170	1159	1163	1159	1159	111
15°	1125	1114	1119	1115	1113	318
25°	1036	1024	1029	1020	1019	477
35°	895	886	889	879	878	560
45°	728	723	723	716	716	561
55°	540	538	533	530	528	480
65°	319	313	306	304	305	318
75°	145	145	143	142	141	157
85°	34	37	37	37	37	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.3	1166.3	1166.3	1166.3	1166.3
2.5°	1175.5	1163.3	1166.3	1164.3	1158.2
5°	1170.4	1159.2	1163.3	1159.2	1159.2
7.5°	1164.3	1152.0	1156.1	1152.0	1152.0
10°	1155.1	1142.8	1146.9	1142.8	1141.8
12.5°	1141.8	1129.5	1134.6	1129.5	1129.5
15°	1125.4	1114.2	1119.3	1115.2	1113.2
17.5°	1108.1	1095.8	1101.9	1096.8	1095.8
20°	1087.6	1075.4	1081.5	1073.3	1073.3
22.5°	1063.1	1050.8	1058.0	1046.7	1046.7
25°	1036.5	1024.2	1029.4	1020.2	1019.1
27.5°	1005.8	993.6	998.7	988.5	988.5
30°	972.1	960.9	967.0	955.8	954.7
32.5°	935.3	925.1	929.2	917.9	916.9
35°	895.4	886.2	889.3	879.1	878.1
37.5°	854.6	844.3	848.4	839.2	839.2
40°	810.6	804.5	805.5	798.3	796.3
42.5°	769.7	762.6	763.6	756.4	756.4
45°	727.8	722.7	722.7	715.5	715.5
47.5°	683.9	679.8	678.7	672.6	672.6
50°	637.9	634.8	633.8	628.7	627.6
52.5°	589.8	588.8	584.7	580.6	580.6
55°	539.7	537.7	532.6	529.5	528.5
57.5°	486.6	482.5	477.4	472.3	473.3
60°	428.3	424.2	416.0	414.0	414.0
62.5°	372.1	367.0	358.8	355.7	357.8
65°	318.9	312.8	305.6	303.6	304.6
67.5°	269.9	263.7	255.6	255.6	254.5
70°	222.8	219.8	213.6	213.6	213.6
72.5°	180.9	179.9	175.8	175.8	174.8
75°	145.2	145.2	143.1	142.1	141.1
77.5°	114.5	114.5	113.5	112.4	110.4
80°	85.9	87.9	86.9	85.9	84.8
82.5°	59.3	61.3	61.3	59.3	59.3
85°	33.7	36.8	36.8	36.8	36.8
87.5°	11.2	15.3	16.4	16.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)