

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: P688902

Luminaire Tested: SQ4R-PR1-075D-93050-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688902
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-93050-1-UNV-STD-W-4_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 2909.5 lumens
Efficiency: N/A
Efficacy: 88.2 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

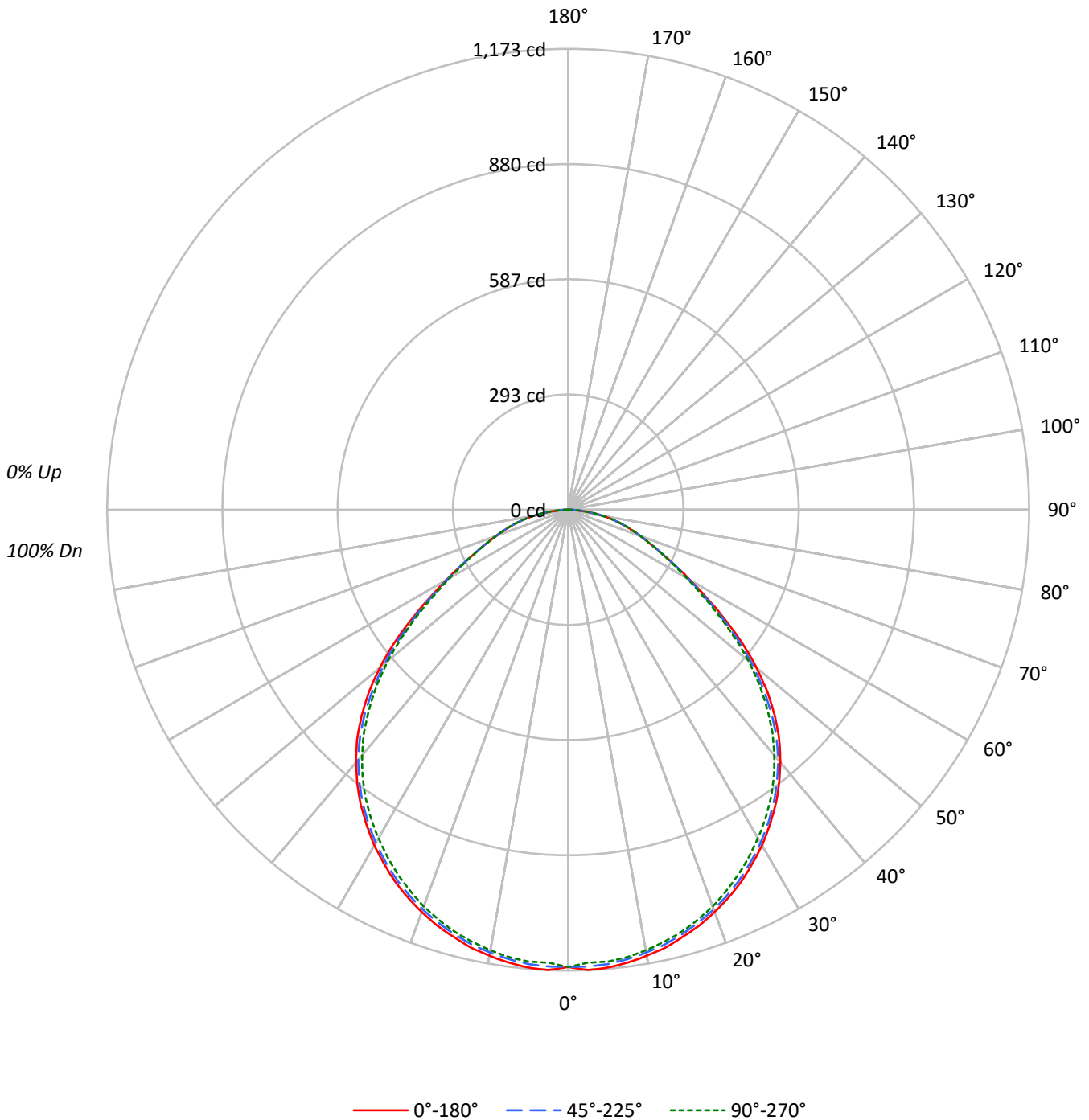
Input Watts (W): 33
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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					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°	11204	11204	11204
5°	11305	11218	11160
10°	11270	11191	11133
15°	11220	11150	11090
20°	11163	11091	11009
25°	11085	11010	10883
30°	10966	10888	10731
35°	10803	10709	10556
40°	10557	10444	10255
45°	10127	9950	9744
50°	9368	9144	8964
55°	8178	7993	7823
60°	6891	6833	6697
65°	5959	5982	5937
70°	5475	5503	5503
75°	5256	5256	5293
80°	4945	5001	4945
85°	3988	4430	4430

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10127 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.8
10°-20°	315.1	10.8
20°-30°	475.2	16.3
30°-40°	566.3	19.5
40°-50°	558.6	19.2
50°-60°	426.1	14.6
60°-70°	263.0	9.0
70°-80°	149.9	5.2
80°-90°	45.2	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°	900.4	30.9
0°-40°	1466.7	50.4
0°-60°	2451.5	84.3
0°-90°	2909.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1170	1157	1161	1157	1155	111
15°	1126	1114	1119	1115	1113	318
25°	1044	1030	1036	1026	1024	481
35°	919	908	911	899	898	574
45°	744	734	731	718	716	571
55°	487	479	476	468	466	436
65°	262	260	263	261	261	264
75°	141	141	141	142	142	149
85°	36	38	40	40	40	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.8	1163.8	1163.8	1163.8	1163.8
2.5°	1172.9	1159.8	1163.8	1160.8	1153.8
5°	1169.8	1156.8	1160.8	1156.8	1154.8
7.5°	1162.8	1149.8	1153.8	1149.8	1148.8
10°	1152.8	1140.8	1144.8	1140.8	1138.8
12.5°	1141.8	1128.7	1133.8	1128.7	1126.7
15°	1125.7	1113.7	1118.7	1114.7	1112.7
17.5°	1109.7	1096.7	1101.7	1097.7	1094.7
20°	1089.6	1077.6	1082.6	1075.6	1074.6
22.5°	1067.6	1055.6	1060.6	1050.6	1050.6
25°	1043.5	1030.5	1036.5	1025.5	1024.5
27.5°	1015.5	1003.4	1008.5	997.4	996.4
30°	986.4	974.4	979.4	967.4	965.3
32.5°	953.3	942.3	946.3	934.3	933.3
35°	919.2	908.2	911.2	899.2	898.2
37.5°	881.1	871.1	873.1	860.1	859.1
40°	840.0	830.0	831.0	817.0	816.0
42.5°	794.9	784.9	783.9	769.9	768.9
45°	743.8	733.8	730.8	717.7	715.7
47.5°	687.7	677.6	671.6	660.6	659.6
50°	625.5	615.5	610.5	601.5	598.5
52.5°	558.4	548.3	544.3	536.3	533.3
55°	487.2	479.2	476.2	468.1	466.1
57.5°	419.0	413.0	412.0	404.0	403.0
60°	357.9	354.9	354.9	347.8	347.8
62.5°	305.7	303.7	305.7	301.7	300.7
65°	261.6	259.6	262.6	260.6	260.6
67.5°	224.5	224.5	226.6	225.5	225.5
70°	194.5	194.5	195.5	195.5	195.5
72.5°	167.4	166.4	169.4	169.4	168.4
75°	141.3	141.3	141.3	142.3	142.3
77.5°	115.3	115.3	116.3	116.3	115.3
80°	89.2	90.2	90.2	89.2	89.2
82.5°	63.2	64.2	64.2	64.2	63.2
85°	36.1	38.1	40.1	40.1	40.1
87.5°	13.0	17.0	20.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)