

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: P688824

Luminaire Tested: SQ4R-PP3-075D-93050-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688824
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_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: 3072.2 lumens
Efficiency: N/A
Efficacy: 93.1 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

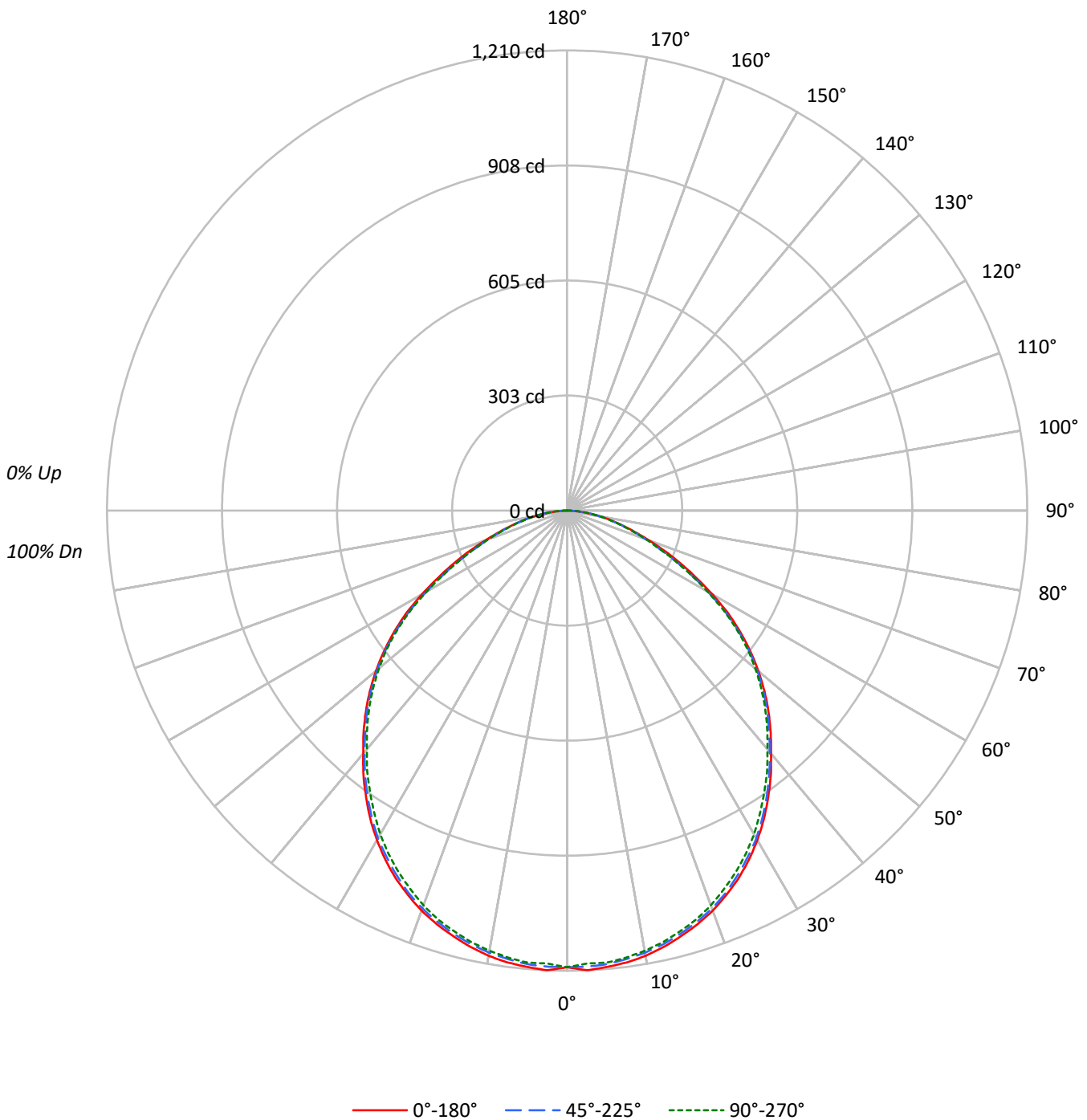
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	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°	11557	11557	11557
5°	11641	11570	11529
10°	11622	11539	11488
15°	11545	11482	11419
20°	11468	11404	11317
25°	11332	11254	11142
30°	11122	11063	10923
35°	10831	10757	10621
40°	10485	10419	10299
45°	10198	10127	10026
50°	9833	9770	9674
55°	9324	9200	9129
60°	8487	8245	8204
65°	7476	7167	7142
70°	6454	6190	6190
75°	5557	5479	5401
80°	4901	4956	4840
85°	3833	4186	4186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.7
10°-20°	324.3	10.6
20°-30°	485.7	15.8
30°-40°	569.7	18.5
40°-50°	571.5	18.6
50°-60°	488.0	15.9
60°-70°	317.1	10.3
70°-80°	158.8	5.2
80°-90°	43.6	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°	923.6	30.1
0°-40°	1493.3	48.6
0°-60°	2552.7	83.1
0°-90°	3072.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1205	1193	1197	1193	1193	114
15°	1158	1147	1152	1148	1146	327
25°	1067	1054	1059	1050	1049	491
35°	922	912	915	905	904	576
45°	749	744	744	736	736	577
55°	556	553	548	545	544	494
65°	328	322	315	312	314	327
75°	149	149	147	146	145	161
85°	35	38	38	38	38	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1209.8	1197.2	1200.4	1198.3	1192.0
5°	1204.6	1193.0	1197.2	1193.0	1193.0
7.5°	1198.3	1185.6	1189.9	1185.6	1185.6
10°	1188.8	1176.2	1180.4	1176.2	1175.1
12.5°	1175.1	1162.5	1167.8	1162.5	1162.5
15°	1158.3	1146.7	1152.0	1147.8	1145.7
17.5°	1140.4	1127.8	1134.1	1128.8	1127.8
20°	1119.4	1106.7	1113.1	1104.6	1104.6
22.5°	1094.1	1081.5	1088.9	1077.3	1077.3
25°	1066.8	1054.1	1059.4	1049.9	1048.9
27.5°	1035.2	1022.6	1027.8	1017.3	1017.3
30°	1000.5	988.9	995.2	983.7	982.6
32.5°	962.6	952.1	956.3	944.7	943.7
35°	921.6	912.1	915.3	904.8	903.7
37.5°	879.5	869.0	873.2	863.7	863.7
40°	834.3	828.0	829.0	821.6	819.5
42.5°	792.2	784.8	785.9	778.5	778.5
45°	749.0	743.8	743.8	736.4	736.4
47.5°	703.8	699.6	698.6	692.2	692.2
50°	656.5	653.3	652.3	647.0	645.9
52.5°	607.0	606.0	601.8	597.6	597.6
55°	555.5	553.4	548.1	545.0	543.9
57.5°	500.8	496.6	491.3	486.0	487.1
60°	440.8	436.6	428.2	426.1	426.1
62.5°	382.9	377.7	369.3	366.1	368.2
65°	328.2	321.9	314.6	312.5	313.5
67.5°	277.7	271.4	263.0	263.0	262.0
70°	229.3	226.2	219.9	219.9	219.9
72.5°	186.2	185.2	181.0	181.0	179.9
75°	149.4	149.4	147.3	146.2	145.2
77.5°	117.8	117.8	116.8	115.7	113.6
80°	88.4	90.5	89.4	88.4	87.3
82.5°	61.0	63.1	63.1	61.0	61.0
85°	34.7	37.9	37.9	37.9	37.9
87.5°	11.6	15.8	16.8	16.8	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)