

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: P688825

Luminaire Tested: SQ4R-PP3-075D-93050-1-UNV-STD-W-4\_5000K

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688825  
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\_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: 3098.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

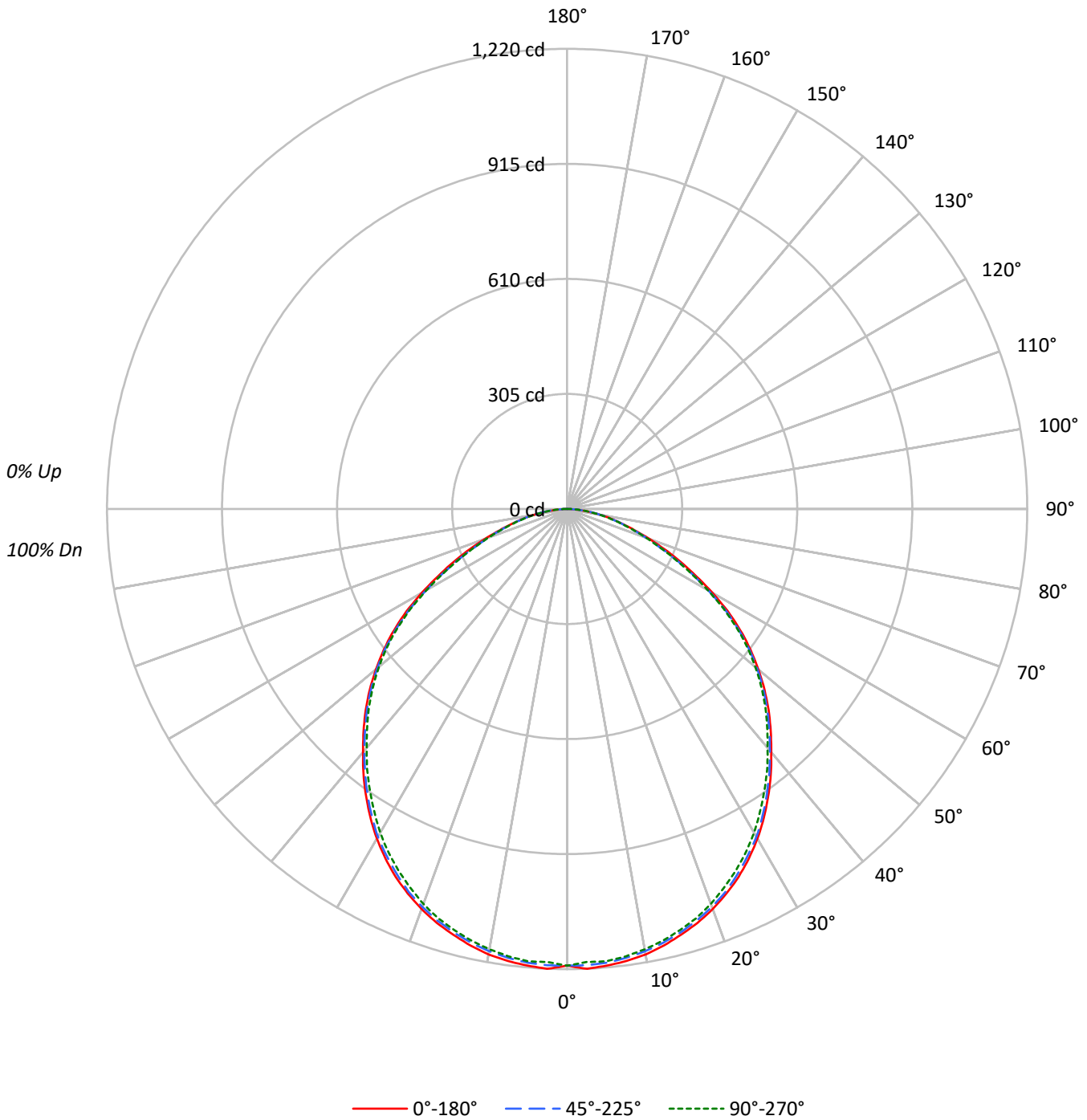
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	11656	11656	11656
5°	11742	11670	11629
10°	11722	11639	11587
15°	11644	11581	11518
20°	11567	11502	11415
25°	11430	11350	11238
30°	11218	11159	11018
35°	10924	10850	10713
40°	10576	10509	10388
45°	10286	10214	10113
50°	9917	9854	9758
55°	9405	9279	9208
60°	8561	8316	8276
65°	7543	7228	7203
70°	6511	6243	6243
75°	5606	5528	5446
80°	4940	5001	4884
85°	3866	4220	4220

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10286 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	3.7
10°-20°	327.1	10.6
20°-30°	489.9	15.8
30°-40°	574.6	18.5
40°-50°	576.4	18.6
50°-60°	492.2	15.9
60°-70°	319.9	10.3
70°-80°	160.2	5.2
80°-90°	43.9	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°	931.6	30.1
0°-40°	1506.2	48.6
0°-60°	2574.7	83.1
0°-90°	3098.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1215	1203	1208	1203	1203	115
15°	1168	1157	1162	1158	1156	330
25°	1076	1063	1068	1059	1058	495
35°	930	920	923	913	912	581
45°	756	750	750	743	743	582
55°	560	558	553	550	549	499
65°	331	325	317	315	316	330
75°	151	151	149	148	146	163
85°	35	38	38	38	38	42
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1210.7	1210.7	1210.7	1210.7	1210.7
2.5°	1220.3	1207.6	1210.7	1208.6	1202.2
5°	1215.0	1203.3	1207.6	1203.3	1203.3
7.5°	1208.6	1195.9	1200.1	1195.9	1195.9
10°	1199.1	1186.3	1190.6	1186.3	1185.3
12.5°	1185.3	1172.5	1177.8	1172.5	1172.5
15°	1168.3	1156.6	1161.9	1157.7	1155.6
17.5°	1150.3	1137.5	1143.9	1138.6	1137.5
20°	1129.0	1116.3	1122.7	1114.2	1114.2
22.5°	1103.6	1090.8	1098.3	1086.6	1086.6
25°	1076.0	1063.2	1068.5	1059.0	1057.9
27.5°	1044.1	1031.4	1036.7	1026.1	1026.1
30°	1009.1	997.5	1003.8	992.1	991.1
32.5°	970.9	960.3	964.6	952.9	951.8
35°	929.5	920.0	923.2	912.6	911.5
37.5°	887.1	876.5	880.7	871.2	871.2
40°	841.5	835.1	836.2	828.7	826.6
42.5°	799.0	791.6	792.7	785.2	785.2
45°	755.5	750.2	750.2	742.8	742.8
47.5°	709.9	705.6	704.6	698.2	698.2
50°	662.1	659.0	657.9	652.6	651.5
52.5°	612.3	611.2	607.0	602.7	602.7
55°	560.3	558.1	552.8	549.7	548.6
57.5°	505.1	500.8	495.5	490.2	491.3
60°	444.6	440.4	431.9	429.8	429.8
62.5°	386.2	380.9	372.5	369.3	371.4
65°	331.1	324.7	317.3	315.2	316.2
67.5°	280.1	273.8	265.3	265.3	264.2
70°	231.3	228.1	221.8	221.8	221.8
72.5°	187.8	186.8	182.5	182.5	181.5
75°	150.7	150.7	148.6	147.5	146.4
77.5°	118.8	118.8	117.8	116.7	114.6
80°	89.1	91.3	90.2	89.1	88.1
82.5°	61.5	63.7	63.7	61.5	61.5
85°	35.0	38.2	38.2	38.2	38.2
87.5°	11.7	15.9	17.0	17.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)