

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: P688506

Luminaire Tested: SQ4R-PH1-075D-830-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688506  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2203-586-36)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PH1-075D-830-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE HEX CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2655.1 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.22 / 1.28  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

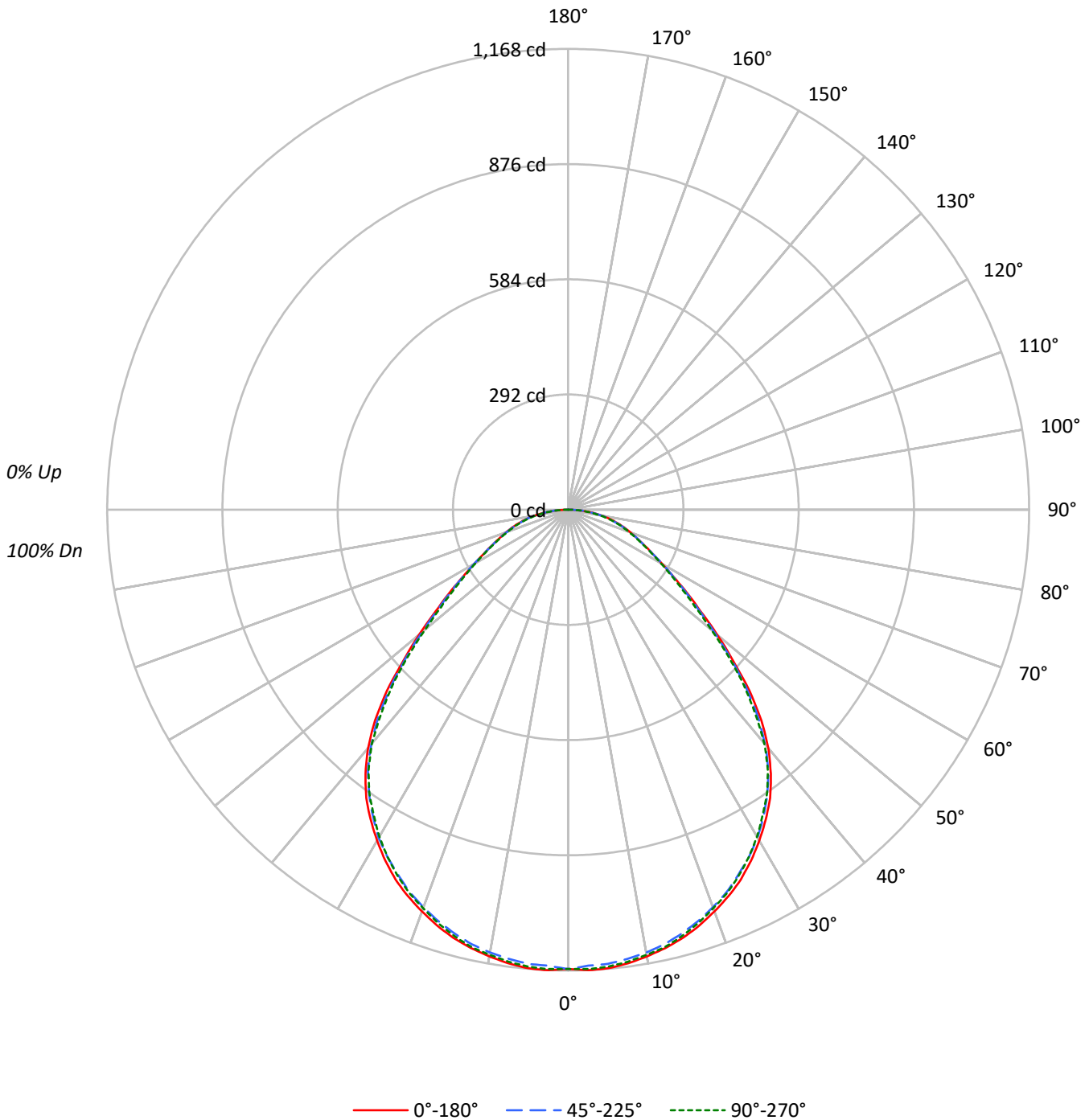
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86				86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74				74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64				64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55				55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49				49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43				43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39				39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	58	47	39	34	45	39	34	44	38	34	43	38	33	32				32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29				29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11206	11206	11206
5°	11276	11166	11235
10°	11238	11140	11196
15°	11200	11085	11143
20°	11101	10983	11013
25°	10990	10838	10868
30°	10767	10671	10639
35°	10488	10335	10319
40°	9915	9752	9716
45°	8843	8667	8569
50°	7382	7231	7081
55°	6150	6078	5933
60°	5285	5312	5203
65°	4845	4811	4747
70°	4692	4653	4571
75°	4758	4650	4542
80°	4779	4701	4541
85°	4606	4606	4286

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8843 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	4.2
10°-20°	315.4	11.9
20°-30°	472.5	17.8
30°-40°	549.7	20.7
40°-50°	489.0	18.4
50°-60°	328.3	12.4
60°-70°	212.2	8.0
70°-80°	132.3	5.0
80°-90°	45.3	1.7
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°	898.2	33.8
0°-40°	1448.0	54.5
0°-60°	2265.3	85.3
0°-90°	2655.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1167	1164	1155	1164	1162	111
15°	1124	1121	1112	1119	1118	317
25°	1035	1030	1020	1026	1023	476
35°	892	888	879	879	878	555
45°	650	647	637	628	629	496
55°	366	366	362	356	354	332
65°	213	214	211	210	208	213
75°	128	126	125	125	122	135
85°	42	43	42	40	39	46
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1164.0	1164.0	1164.0	1164.0	1164.0
2.5°	1168.3	1165.4	1156.8	1166.8	1165.4
5°	1166.8	1164.0	1155.4	1164.0	1162.5
7.5°	1159.7	1158.2	1148.2	1158.2	1155.4
10°	1149.6	1149.6	1139.5	1148.2	1145.3
12.5°	1138.1	1136.7	1128.0	1136.7	1135.2
15°	1123.7	1120.9	1112.2	1119.4	1118.0
17.5°	1105.1	1103.6	1093.6	1100.7	1097.9
20°	1083.5	1080.6	1072.0	1077.8	1074.9
22.5°	1060.5	1057.6	1049.0	1053.3	1051.9
25°	1034.6	1030.3	1020.3	1026.0	1023.1
27.5°	1003.0	1001.6	991.5	994.4	991.5
30°	968.5	967.1	959.9	959.9	957.0
32.5°	931.2	932.6	921.1	922.6	916.8
35°	892.4	888.1	879.4	879.4	878.0
37.5°	843.5	840.6	833.5	832.0	830.6
40°	788.9	786.0	776.0	773.1	773.1
42.5°	724.3	721.4	711.3	707.0	701.3
45°	649.5	646.7	636.6	628.0	629.4
47.5°	566.2	569.1	559.0	551.8	550.4
50°	492.9	491.5	482.8	478.5	472.8
52.5°	422.5	423.9	416.7	413.9	406.7
55°	366.4	366.4	362.1	356.4	353.5
57.5°	316.1	319.0	314.7	311.8	309.0
60°	274.5	275.9	275.9	270.2	270.2
62.5°	240.0	241.4	240.0	237.1	237.1
65°	212.7	214.1	211.2	209.8	208.4
67.5°	188.2	189.7	188.2	186.8	183.9
70°	166.7	166.7	165.3	165.3	162.4
72.5°	148.0	146.6	145.1	145.1	143.7
75°	127.9	126.5	125.0	125.0	122.1
77.5°	107.8	106.3	106.3	103.5	102.0
80°	86.2	86.2	84.8	83.3	81.9
82.5°	66.1	64.7	63.2	61.8	60.4
85°	41.7	43.1	41.7	40.2	38.8
87.5°	18.7	20.1	20.1	20.1	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)