

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: P688471

Luminaire Tested: SQ4R-PC3-075D-835-1-UNV-STD-W-4

Issue Date: 5/22/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P688471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/22/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4R-PC3-075D-835-1-UNV-STD-W-4  
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2950.8 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')  
CIE Type: Direct

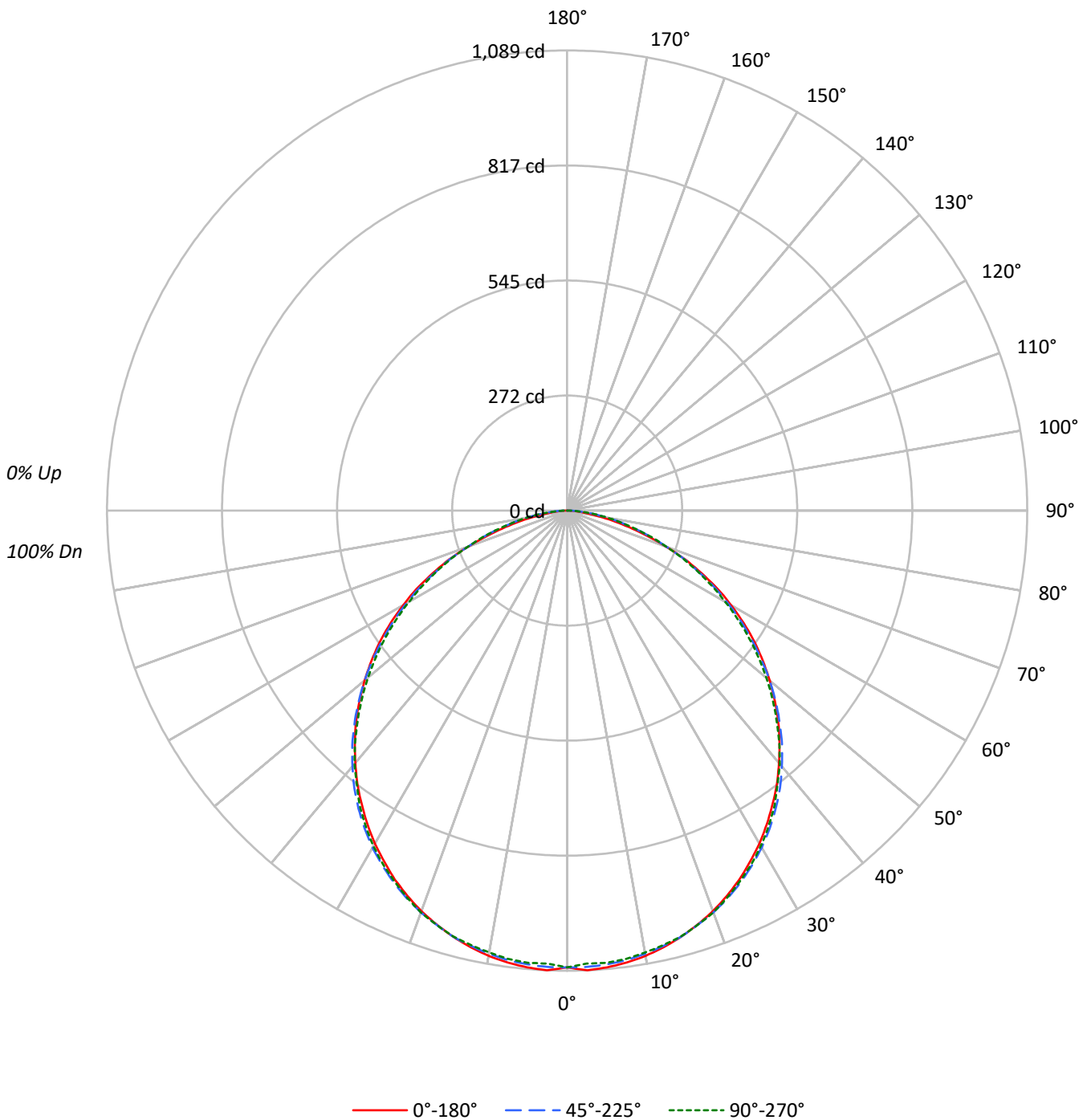
Input Watts (W): 26.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

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

	0°	45°	90°
0°	10407	10407	10407
5°	10486	10418	10379
10°	10460	10411	10382
15°	10406	10406	10396
20°	10336	10367	10367
25°	10239	10313	10282
30°	10115	10237	10193
35°	9964	10117	10046
40°	9799	9937	9837
45°	9622	9690	9540
50°	9370	9370	9220
55°	9072	8955	8820
60°	8634	8461	8326
65°	7980	7820	7752
70°	6986	7043	7015
75°	5620	6219	6257
80°	3997	5273	5328
85°	2430	4418	4418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 9690 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.5
10°-20°	293.7	10.0
20°-30°	444.8	15.1
30°-40°	533.4	18.1
40°-50°	543.8	18.4
50°-60°	474.7	16.1
60°-70°	339.8	11.5
70°-80°	174.5	5.9
80°-90°	43.7	1.5
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°	840.9	28.5
0°-40°	1374.3	46.6
0°-60°	2392.8	81.1
0°-90°	2950.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1085	1074	1078	1075	1074	103
15°	1044	1035	1044	1044	1043	295
25°	964	957	971	968	968	444
35°	848	846	861	855	855	531
45°	707	705	712	703	701	544
55°	540	534	534	526	526	482
65°	350	342	343	340	340	347
75°	151	158	167	168	168	163
85°	22	34	40	41	40	30
90°	0	0	0	0	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1089.0	1077.0	1081.0	1078.0	1073.0
5°	1085.0	1074.0	1078.0	1075.0	1074.0
7.5°	1079.0	1068.0	1073.0	1071.0	1070.0
10°	1070.0	1059.0	1065.0	1063.0	1062.0
12.5°	1058.0	1048.0	1055.0	1053.0	1053.0
15°	1044.0	1035.0	1044.0	1044.0	1043.0
17.5°	1027.0	1019.0	1028.0	1029.0	1028.0
20°	1008.9	999.9	1011.9	1010.9	1011.9
22.5°	986.9	979.9	992.9	989.9	990.9
25°	963.9	956.9	970.9	967.9	967.9
27.5°	936.9	931.9	946.9	943.9	943.9
30°	909.9	904.8	920.9	916.9	916.9
32.5°	879.8	876.8	891.8	886.8	886.8
35°	847.8	845.8	860.8	854.8	854.8
37.5°	815.8	813.8	827.8	820.8	817.8
40°	779.7	778.7	790.7	782.7	782.7
42.5°	743.7	742.7	752.7	742.7	742.7
45°	706.7	704.7	711.7	702.7	700.7
47.5°	666.6	664.6	669.6	659.6	658.6
50°	625.6	623.6	625.6	616.6	615.6
52.5°	583.5	579.5	579.5	570.5	570.5
55°	540.5	533.5	533.5	525.5	525.5
57.5°	495.5	486.5	487.5	480.5	479.4
60°	448.4	438.4	439.4	433.4	432.4
62.5°	402.4	390.4	393.4	386.4	386.4
65°	350.3	342.3	343.3	340.3	340.3
67.5°	302.3	294.3	299.3	296.3	296.3
70°	248.2	243.2	250.2	250.2	249.2
72.5°	198.2	199.2	208.2	208.2	209.2
75°	151.1	158.1	167.2	168.2	168.2
77.5°	108.1	120.1	130.1	130.1	130.1
80°	72.1	86.1	95.1	97.1	96.1
82.5°	43.0	58.1	65.1	67.1	66.1
85°	22.0	34.0	40.0	41.0	40.0
87.5°	8.0	17.0	20.0	20.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)