

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

(formerly Eaton)

Brand: CORELITE

Report Number: P562315

Luminaire Tested: **SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562315  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-0U-075D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

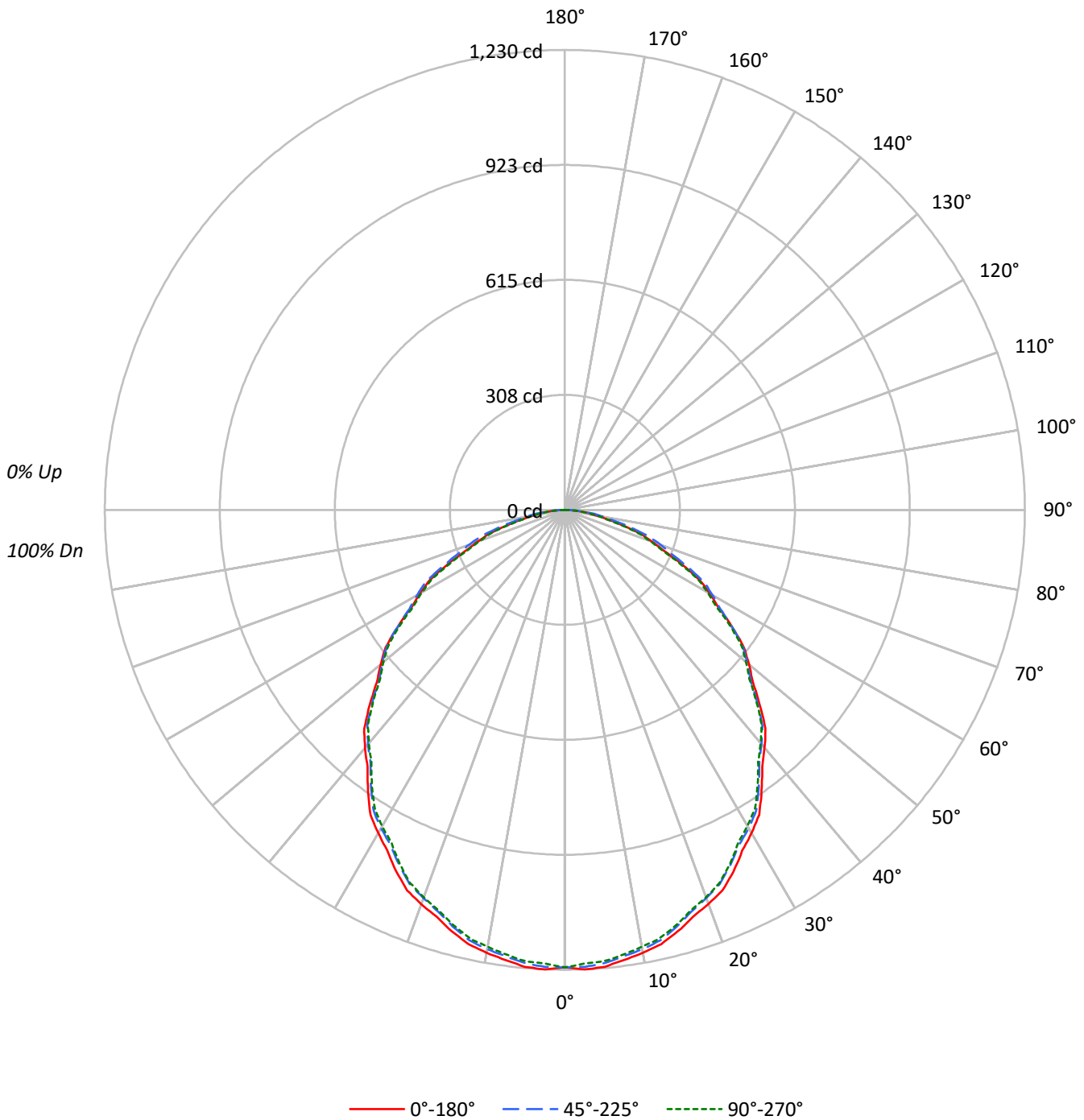
Lumens per Lamp: N/A  
Luminaire Lumens: 3112.5 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.8  
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	11286	11286	11286
5°	11360	11270	11220
10°	11269	11179	11118
15°	11150	11026	10984
20°	11016	10847	10826
25°	10863	10666	10632
30°	10633	10472	10403
35°	10331	10185	10124
40°	10009	9853	9813
45°	9619	9492	9451
50°	9221	9143	9081
55°	8791	8791	8651
60°	8254	8412	8115
65°	7554	7929	7366
70°	6658	7297	6485
75°	5686	6531	5532
80°	4410	5499	4468
85°	2848	4224	3769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.2	3.7
10°-20°	325.2	10.4
20°-30°	482.4	15.5
30°-40°	564.5	18.1
40°-50°	562.0	18.1
50°-60°	485.3	15.6
60°-70°	349.3	11.2
70°-80°	183.2	5.9
80°-90°	45.4	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°	922.9	29.6
0°-40°	1487.3	47.8
0°-60°	2534.6	81.4
0°-90°	3112.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3112.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1227	1213	1217	1214	1212	116
15°	1167	1152	1154	1152	1150	329
25°	1067	1049	1048	1041	1044	491
35°	917	905	904	896	899	573
45°	737	731	728	725	724	569
55°	546	545	546	539	538	488
65°	346	356	363	349	337	343
75°	160	174	183	171	155	171
85°	27	35	40	38	36	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1230.2	1220.1	1223.3	1220.6	1214.7
5°	1226.6	1212.9	1216.9	1213.6	1211.5
7.5°	1214.1	1201.4	1204.4	1200.9	1199.6
10°	1202.9	1190.2	1193.2	1188.8	1186.7
12.5°	1189.9	1176.4	1179.4	1175.0	1173.8
15°	1167.3	1152.5	1154.4	1152.2	1150.0
17.5°	1141.0	1126.0	1126.3	1122.9	1122.5
20°	1122.0	1106.2	1104.8	1100.5	1102.6
22.5°	1101.3	1084.7	1083.2	1077.3	1080.2
25°	1067.1	1049.1	1047.7	1041.3	1044.4
27.5°	1027.4	1009.7	1009.7	1000.7	1004.1
30°	998.1	981.2	983.0	972.3	976.5
32.5°	967.0	951.9	952.8	942.1	946.3
35°	917.2	904.6	904.3	895.7	898.9
37.5°	866.4	855.2	853.4	848.5	849.3
40°	831.0	821.5	818.1	814.8	814.8
42.5°	793.9	785.3	781.9	779.5	778.6
45°	737.2	730.9	727.5	725.4	724.3
47.5°	681.2	675.3	672.4	670.8	669.8
50°	642.4	638.2	637.0	633.7	632.7
52.5°	603.6	601.1	599.9	595.8	594.7
55°	546.5	545.4	546.5	538.9	537.8
57.5°	487.0	488.6	492.1	481.9	479.4
60°	447.3	451.5	455.9	444.0	439.8
62.5°	406.8	413.5	419.7	406.0	400.1
65°	346.0	356.5	363.2	349.0	337.4
67.5°	287.3	300.4	308.5	293.1	280.0
70°	246.8	261.6	270.5	255.1	240.4
72.5°	211.5	227.9	235.2	220.6	205.9
75°	159.5	174.3	183.2	171.0	155.2
77.5°	113.2	127.1	134.5	123.9	110.8
80°	83.0	97.7	103.5	94.6	84.1
82.5°	58.8	71.1	75.0	69.7	62.5
85°	26.9	35.4	39.9	37.7	35.6
87.5°	6.9	12.8	16.4	16.4	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)