

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: P564900

Luminaire Tested: **SQ4-PW1-0U-125D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564900  
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-125D-935-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

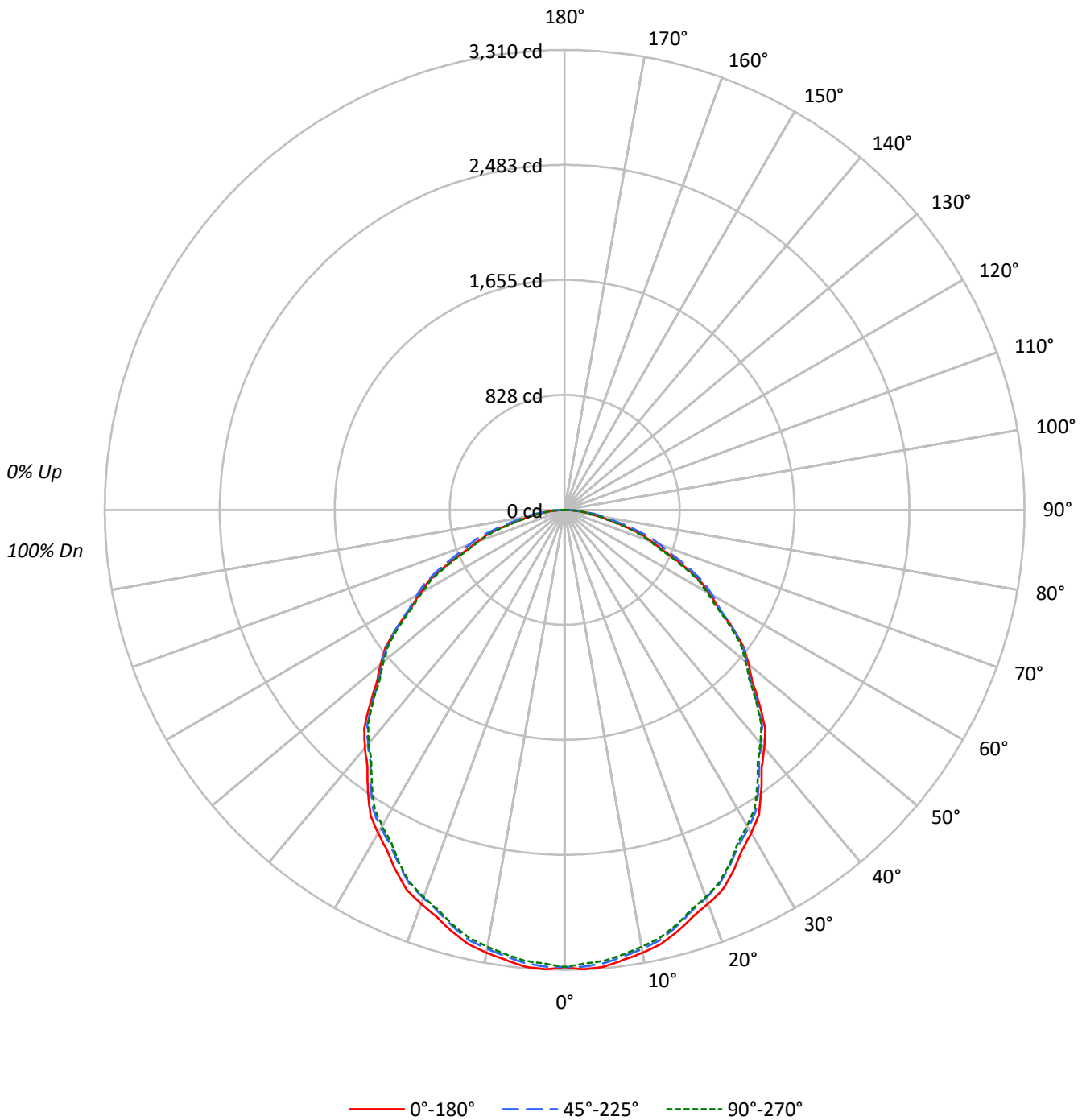
Lumens per Lamp: N/A  
Luminaire Lumens: 8373.4 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 91.1  
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°	15182	15182	15182
5°	15280	15160	15092
10°	15158	15036	14955
15°	14998	14831	14776
20°	14818	14591	14562
25°	14611	14346	14301
30°	14303	14087	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12299	12215
55°	11824	11824	11637
60°	11102	11316	10916
65°	10160	10667	9907
70°	8956	9816	8721
75°	7648	8785	7441
80°	5932	7396	6009
85°	3837	5679	5065



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.9	3.7
10°-20°	875.0	10.4
20°-30°	1297.8	15.5
30°-40°	1518.6	18.1
40°-50°	1511.8	18.1
50°-60°	1305.5	15.6
60°-70°	939.7	11.2
70°-80°	492.8	5.9
80°-90°	122.2	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°	2482.7	29.6
0°-40°	4001.3	47.8
0°-60°	6818.7	81.4
0°-90°	8373.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8373.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3300	3263	3274	3265	3259	313
15°	3140	3101	3106	3100	3094	885
25°	2871	2822	2818	2801	2810	1320
35°	2468	2434	2433	2410	2418	1543
45°	1983	1966	1957	1951	1949	1530
55°	1470	1467	1470	1450	1447	1312
65°	931	959	977	939	908	922
75°	429	469	493	460	418	460
85°	72	95	107	101	96	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3291.1	3291.1	3291.1	3291.1	3291.1
2.5°	3309.6	3282.4	3291.1	3283.8	3267.9
5°	3299.8	3262.9	3273.7	3264.9	3259.2
7.5°	3266.1	3232.1	3240.1	3230.7	3227.3
10°	3236.0	3202.0	3209.9	3198.2	3192.5
12.5°	3201.2	3164.9	3172.8	3161.1	3157.7
15°	3140.3	3100.6	3105.5	3099.6	3093.9
17.5°	3069.6	3029.3	3030.1	3020.8	3019.7
20°	3018.5	2976.0	2972.1	2960.7	2966.3
22.5°	2962.8	2918.0	2914.1	2898.1	2906.0
25°	2870.6	2822.4	2818.4	2801.2	2809.7
27.5°	2763.9	2716.3	2716.4	2692.2	2701.3
30°	2685.1	2639.7	2644.5	2615.7	2627.1
32.5°	2601.6	2560.7	2563.3	2534.5	2545.9
35°	2467.6	2433.6	2432.8	2409.8	2418.3
37.5°	2330.7	2300.7	2295.9	2282.6	2284.9
40°	2235.6	2210.1	2200.8	2192.1	2192.1
42.5°	2135.9	2112.6	2103.4	2097.0	2094.7
45°	1983.3	1966.3	1957.3	1951.4	1948.6
47.5°	1832.6	1816.7	1808.8	1804.7	1801.8
50°	1728.2	1716.8	1713.7	1704.9	1702.1
52.5°	1623.8	1617.0	1613.9	1602.9	1600.0
55°	1470.1	1467.3	1470.1	1449.8	1446.9
57.5°	1310.1	1314.6	1324.0	1296.6	1289.8
60°	1203.3	1214.7	1226.5	1194.4	1183.1
62.5°	1094.3	1112.5	1129.1	1092.2	1076.3
65°	930.8	959.1	977.2	938.8	907.6
67.5°	773.0	808.2	829.9	788.5	753.3
70°	664.0	703.7	727.8	686.3	646.6
72.5°	568.9	613.1	632.7	593.5	553.8
75°	429.1	468.8	492.9	460.1	417.5
77.5°	304.5	341.9	361.9	333.2	298.1
80°	223.3	263.0	278.4	254.5	226.2
82.5°	158.3	191.2	201.8	187.5	168.2
85°	72.5	95.2	107.3	101.4	95.7
87.5°	18.6	34.4	44.1	44.1	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)