

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: P564232

Luminaire Tested: **SQ4-PR1-0U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564232  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-0U-125D-940-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

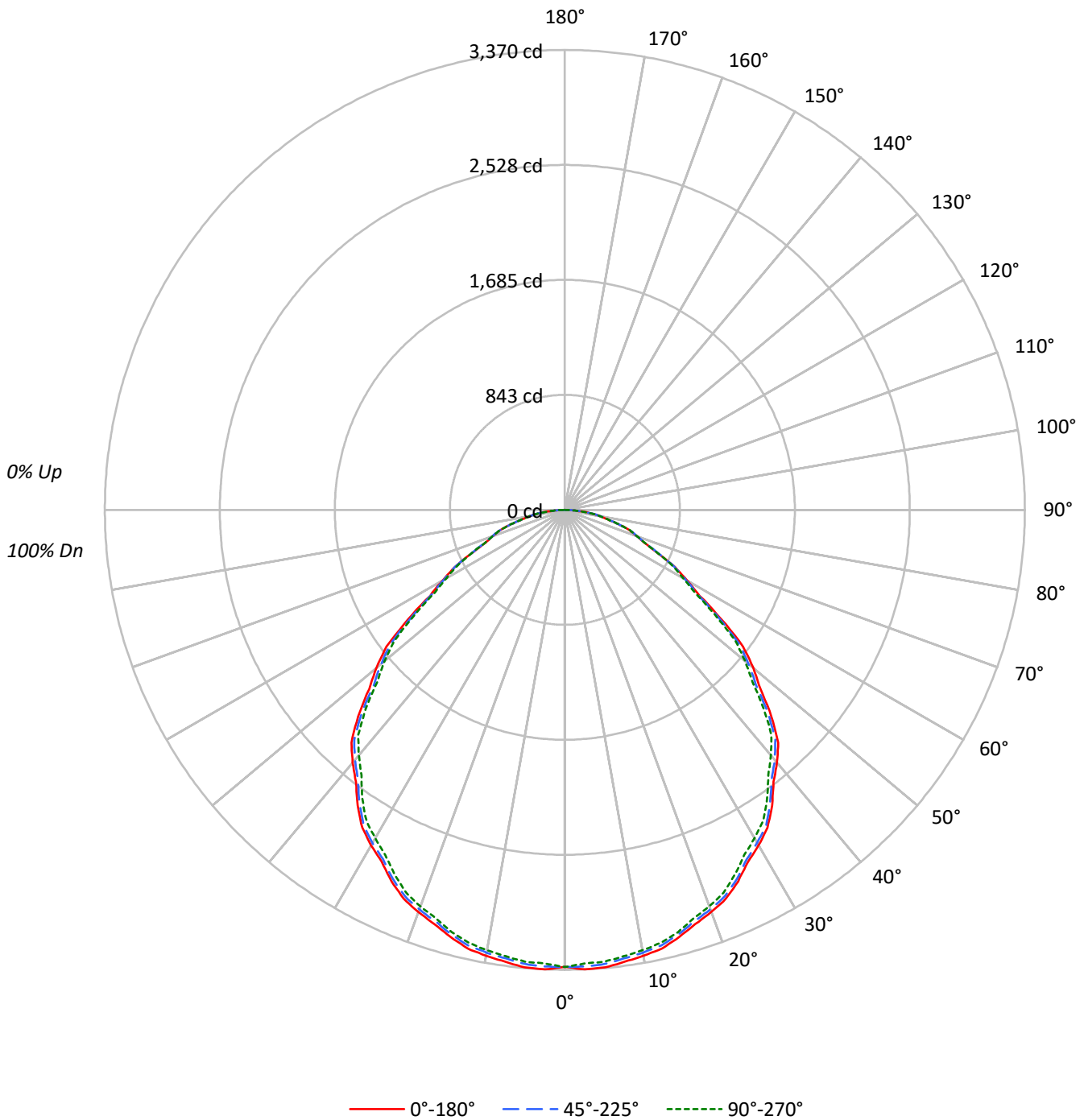
Lumens per Lamp: N/A  
Luminaire Lumens: 8373.1 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Direct

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	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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72				
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62				
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54				
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47				
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37				
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33				
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30				
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27				

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

	0°	45°	90°
0°	15451	15451	15451
5°	15590	15470	15390
10°	15541	15433	15351
15°	15472	15376	15293
20°	15395	15295	15182
25°	15286	15183	15007
30°	15121	15013	14799
35°	14898	14768	14557
40°	14558	14402	14141
45°	13965	13720	13438
50°	12920	12609	12360
55°	11277	11021	10789
60°	9502	9423	9236
65°	8219	8250	8188
70°	7549	7588	7588
75°	7251	7251	7302
80°	6822	6896	6822
85°	5499	6108	6108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.7	3.8
10°-20°	906.2	10.8
20°-30°	1366.8	16.3
30°-40°	1628.6	19.5
40°-50°	1605.7	19.2
50°-60°	1227.1	14.7
60°-70°	759.4	9.1
70°-80°	431.3	5.2
80°-90°	131.2	1.6
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°	2589.8	30.9
0°-40°	4218.4	50.4
0°-60°	7051.2	84.2
0°-90°	8373.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8373.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3349	3349	3349	3349	3349	
5°	3367	3330	3341	3329	3323	319
15°	3240	3206	3220	3208	3202	914
25°	3003	2966	2983	2951	2948	1382
35°	2646	2614	2622	2588	2585	1651
45°	2141	2112	2103	2066	2060	1640
55°	1402	1380	1370	1347	1342	1256
65°	753	747	756	750	750	763
75°	407	407	407	410	410	430
85°	104	110	115	115	115	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3349.4	3349.4	3349.4	3349.4	3349.4
2.5°	3370.1	3340.8	3349.4	3342.1	3326.3
5°	3366.7	3330.0	3340.7	3329.0	3323.4
7.5°	3340.7	3304.6	3315.3	3303.7	3300.3
10°	3317.6	3283.8	3294.6	3282.9	3277.2
12.5°	3292.2	3256.1	3269.2	3255.2	3249.6
15°	3239.7	3205.9	3219.5	3207.9	3202.2
17.5°	3182.0	3145.9	3159.5	3146.1	3138.8
20°	3135.9	3102.0	3115.7	3095.4	3092.6
22.5°	3085.1	3051.3	3064.9	3037.8	3037.2
25°	3003.2	2966.5	2983.0	2951.2	2948.4
27.5°	2905.7	2871.8	2885.5	2853.1	2849.7
30°	2838.7	2804.9	2818.5	2783.8	2778.2
32.5°	2762.6	2731.0	2742.4	2707.7	2704.3
35°	2645.5	2614.4	2622.4	2587.7	2584.9
37.5°	2512.2	2484.0	2488.5	2450.4	2447.6
40°	2417.5	2389.3	2391.6	2351.1	2348.3
42.5°	2313.7	2285.5	2283.1	2242.7	2239.8
45°	2140.6	2112.4	2103.1	2065.5	2059.8
47.5°	1943.3	1915.1	1897.7	1867.0	1863.1
50°	1800.2	1772.0	1756.9	1730.7	1722.3
52.5°	1645.5	1617.3	1604.6	1580.7	1572.3
55°	1402.1	1379.5	1370.3	1347.1	1341.5
57.5°	1170.7	1155.5	1152.8	1130.3	1128.0
60°	1029.9	1021.4	1021.3	1001.1	1001.1
62.5°	909.9	903.7	908.2	894.8	892.6
65°	753.0	747.3	755.8	750.1	750.1
67.5°	628.9	628.9	634.1	631.8	631.8
70°	559.7	559.7	562.6	562.6	562.6
72.5°	497.4	495.1	502.5	502.5	500.2
75°	406.8	406.8	406.8	409.7	409.7
77.5°	316.8	317.3	319.6	319.0	316.8
80°	256.8	259.6	259.6	256.8	256.8
82.5°	196.8	199.6	199.6	199.0	196.8
85°	103.9	109.5	115.4	115.4	115.4
87.5°	30.0	39.0	46.2	46.1	43.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)