

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: P564213

Luminaire Tested: **SQ4-PR1-0U-125D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564213  
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-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

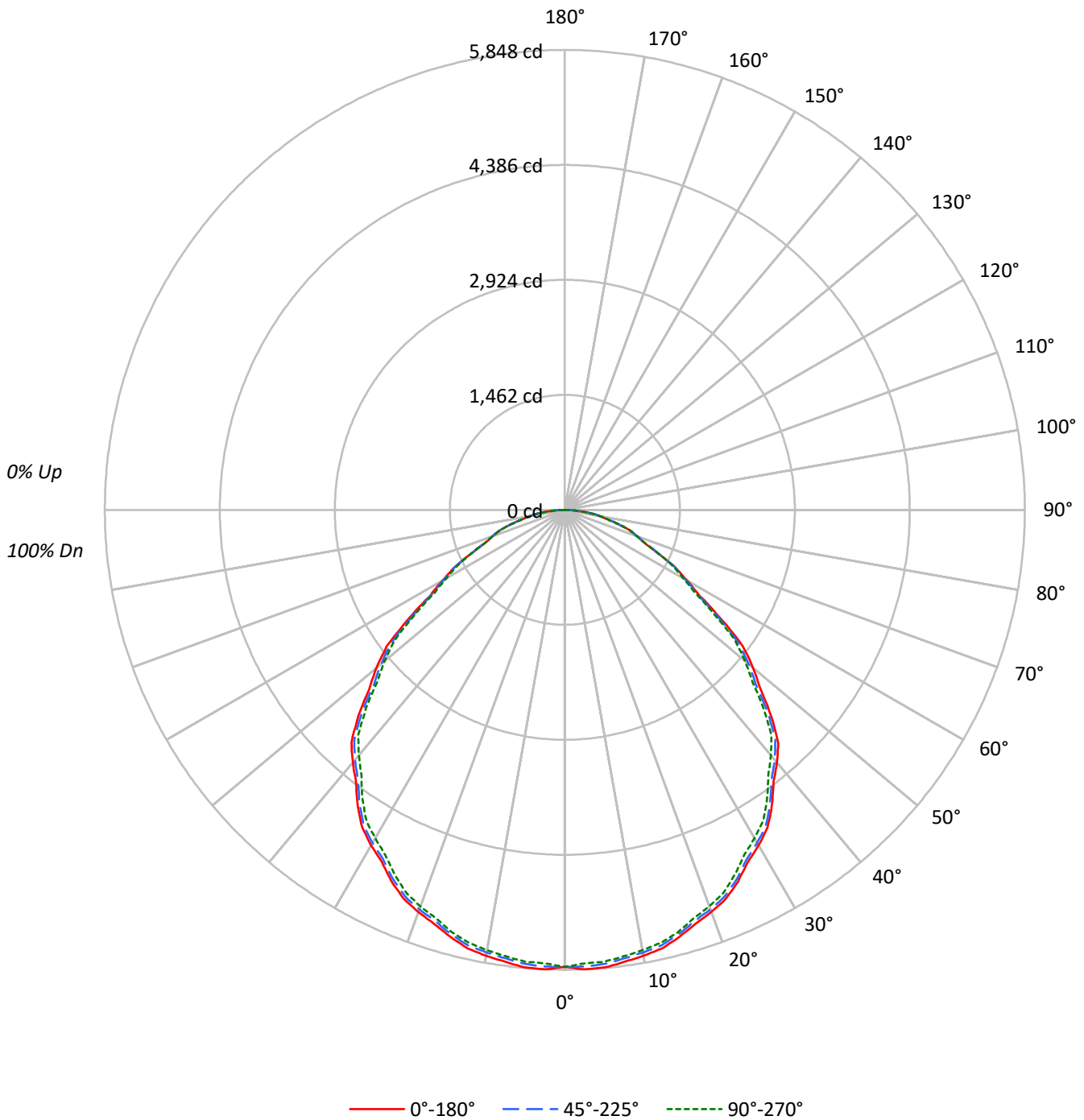
Lumens per Lamp: N/A  
Luminaire Lumens: 14528.5 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 140.8  
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				
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°	17873	17873	17873
5°	18034	17895	17802
10°	17977	17852	17758
15°	17898	17786	17691
20°	17808	17693	17562
25°	17683	17564	17360
30°	17492	17367	17118
35°	17233	17083	16839
40°	16841	16660	16358
45°	16154	15871	15545
50°	14945	14585	14298
55°	13044	12749	12481
60°	10991	10899	10684
65°	9507	9544	9471
70°	8732	8777	8777
75°	8387	8387	8446
80°	7890	7979	7890
85°	6359	7064	7064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.6	3.8
10°-20°	1572.4	10.8
20°-30°	2371.7	16.3
30°-40°	2825.8	19.5
40°-50°	2786.0	19.2
50°-60°	2129.2	14.7
60°-70°	1317.6	9.1
70°-80°	748.4	5.2
80°-90°	227.7	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°	4493.6	30.9
0°-40°	7319.5	50.4
0°-60°	12234.8	84.2
0°-90°	14528.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14528.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5812	5812	5812	5812	5812	
5°	5842	5778	5797	5776	5767	554
15°	5621	5563	5586	5566	5556	1586
25°	5211	5147	5176	5121	5116	2398
35°	4590	4536	4550	4490	4485	2865
45°	3714	3665	3649	3584	3574	2845
55°	2433	2394	2378	2338	2328	2180
65°	1306	1297	1312	1302	1302	1323
75°	706	706	706	711	711	745
85°	180	190	200	200	200	217
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5811.6	5811.6	5811.6	5811.6	5811.6
2.5°	5847.7	5796.8	5811.6	5799.0	5771.6
5°	5841.7	5778.1	5796.6	5776.4	5766.6
7.5°	5796.6	5734.0	5752.6	5732.4	5726.5
10°	5756.6	5697.8	5716.5	5696.3	5686.5
12.5°	5712.5	5649.9	5672.5	5648.2	5638.4
15°	5621.4	5562.7	5586.4	5566.1	5556.4
17.5°	5521.3	5458.7	5482.3	5459.0	5446.2
20°	5441.2	5382.5	5406.2	5371.0	5366.1
22.5°	5353.1	5294.4	5318.1	5271.0	5270.0
25°	5211.0	5147.3	5175.9	5120.7	5115.8
27.5°	5041.8	4983.0	5006.7	4950.5	4944.7
30°	4925.6	4866.9	4890.6	4830.3	4820.5
32.5°	4793.5	4738.7	4758.4	4698.2	4692.4
35°	4590.2	4536.4	4550.2	4490.0	4485.1
37.5°	4359.0	4310.0	4317.9	4251.8	4246.9
40°	4194.8	4145.9	4149.7	4079.6	4074.7
42.5°	4014.6	3965.6	3961.5	3891.3	3886.4
45°	3714.2	3665.3	3649.2	3583.9	3574.1
47.5°	3371.9	3322.9	3292.8	3239.5	3232.7
50°	3123.6	3074.6	3048.5	3003.1	2988.4
52.5°	2855.3	2806.3	2784.2	2742.8	2728.1
55°	2432.8	2393.6	2377.7	2337.5	2327.7
57.5°	2031.3	2004.9	2000.3	1961.2	1957.2
60°	1787.0	1772.4	1772.0	1737.0	1737.0
62.5°	1578.8	1568.0	1575.8	1552.7	1548.8
65°	1306.5	1296.7	1311.5	1301.5	1301.5
67.5°	1091.2	1091.2	1100.3	1096.3	1096.3
70°	971.1	971.1	976.1	976.1	976.1
72.5°	863.0	859.1	872.0	871.9	868.0
75°	705.8	705.8	705.8	710.8	710.8
77.5°	549.6	550.6	554.6	553.5	549.6
80°	445.5	450.4	450.5	445.5	445.5
82.5°	341.4	346.3	346.4	345.3	341.4
85°	180.2	190.0	200.2	200.2	200.2
87.5°	52.1	67.7	80.1	80.0	76.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)