

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: P564225

Luminaire Tested: **SQ4-PR1-0U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564225
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-935-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

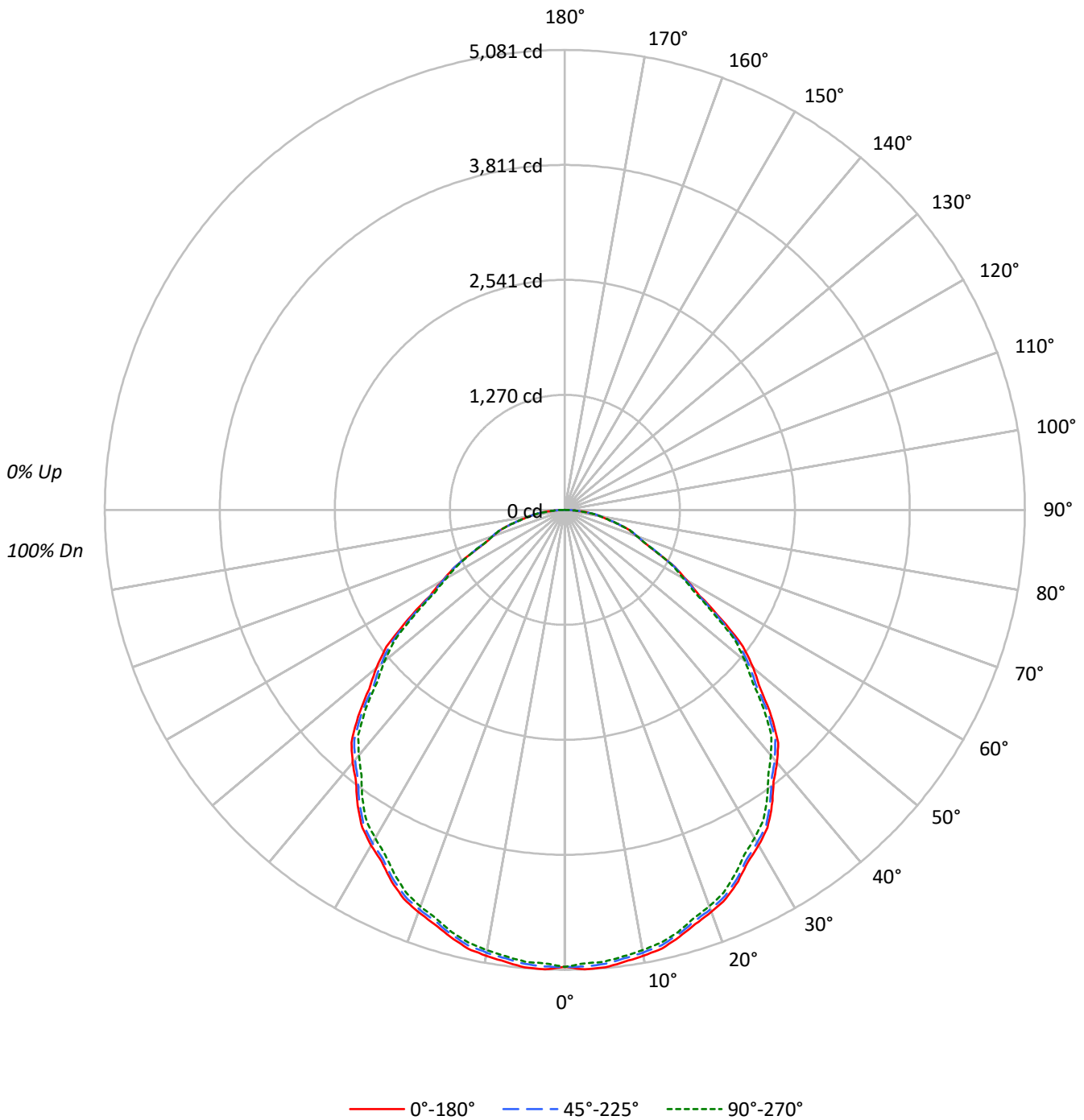
Lumens per Lamp: N/A
Luminaire Lumens: 12623.7 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14476	14213
45°	14036	13790	13507
50°	12985	12673	12423
55°	11334	11077	10844
60°	9550	9470	9283
65°	8261	8293	8230
70°	7587	7626	7626
75°	7287	7287	7339
80°	6856	6932	6856
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	3.8
10°-20°	1366.2	10.8
20°-30°	2060.7	16.3
30°-40°	2455.4	19.5
40°-50°	2420.8	19.2
50°-60°	1850.1	14.7
60°-70°	1144.9	9.1
70°-80°	650.3	5.2
80°-90°	197.8	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°	3904.5	30.9
0°-40°	6359.9	50.4
0°-60°	10630.7	84.2
0°-90°	12623.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12623.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5050	5050	5050	5050	5050	
5°	5076	5020	5037	5019	5011	482
15°	4884	4833	4854	4836	4828	1378
25°	4528	4472	4497	4449	4445	2084
35°	3988	3942	3954	3901	3897	2489
45°	3227	3185	3171	3114	3106	2472
55°	2114	2080	2066	2031	2022	1894
65°	1135	1127	1140	1131	1131	1150
75°	613	613	613	618	618	648
85°	157	165	174	174	174	188
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5049.7	5049.7	5049.7	5049.7	5049.7
2.5°	5081.0	5036.8	5049.7	5038.7	5014.9
5°	5075.8	5020.5	5036.6	5019.1	5010.6
7.5°	5036.6	4982.2	4998.4	4980.9	4975.8
10°	5001.9	4950.8	4967.1	4949.5	4941.0
12.5°	4963.6	4909.1	4928.8	4907.7	4899.2
15°	4884.4	4833.4	4854.0	4836.4	4827.9
17.5°	4797.4	4743.0	4763.5	4743.2	4732.2
20°	4727.8	4676.8	4697.4	4666.8	4662.6
22.5°	4651.3	4600.3	4620.8	4579.9	4579.1
25°	4527.8	4472.5	4497.3	4449.4	4445.1
27.5°	4380.8	4329.7	4350.3	4301.5	4296.4
30°	4279.8	4228.8	4249.4	4197.0	4188.5
32.5°	4165.0	4117.4	4134.6	4082.3	4077.2
35°	3988.4	3941.7	3953.6	3901.3	3897.1
37.5°	3787.5	3745.0	3751.8	3694.3	3690.1
40°	3644.8	3602.3	3605.7	3544.7	3540.4
42.5°	3488.2	3445.7	3442.1	3381.2	3376.9
45°	3227.3	3184.8	3170.7	3114.0	3105.5
47.5°	2929.8	2887.3	2861.1	2814.8	2808.9
50°	2714.0	2671.5	2648.8	2609.4	2596.6
52.5°	2480.9	2438.4	2419.2	2383.2	2370.4
55°	2113.8	2079.8	2066.0	2031.0	2022.5
57.5°	1765.0	1742.0	1738.0	1704.0	1700.6
60°	1552.7	1540.0	1539.7	1509.3	1509.3
62.5°	1371.8	1362.5	1369.2	1349.1	1345.7
65°	1135.2	1126.7	1139.6	1130.9	1130.9
67.5°	948.2	948.2	956.0	952.5	952.5
70°	843.8	843.8	848.1	848.1	848.1
72.5°	749.8	746.4	757.7	757.6	754.2
75°	613.3	613.3	613.3	617.6	617.6
77.5°	477.6	478.4	481.9	481.0	477.6
80°	387.1	391.4	391.4	387.1	387.1
82.5°	296.6	300.9	301.0	300.0	296.6
85°	156.6	165.1	174.0	174.0	174.0
87.5°	45.2	58.8	69.6	69.5	66.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)