

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: P564169

Luminaire Tested: **SQ4-PR1-0U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564169
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-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

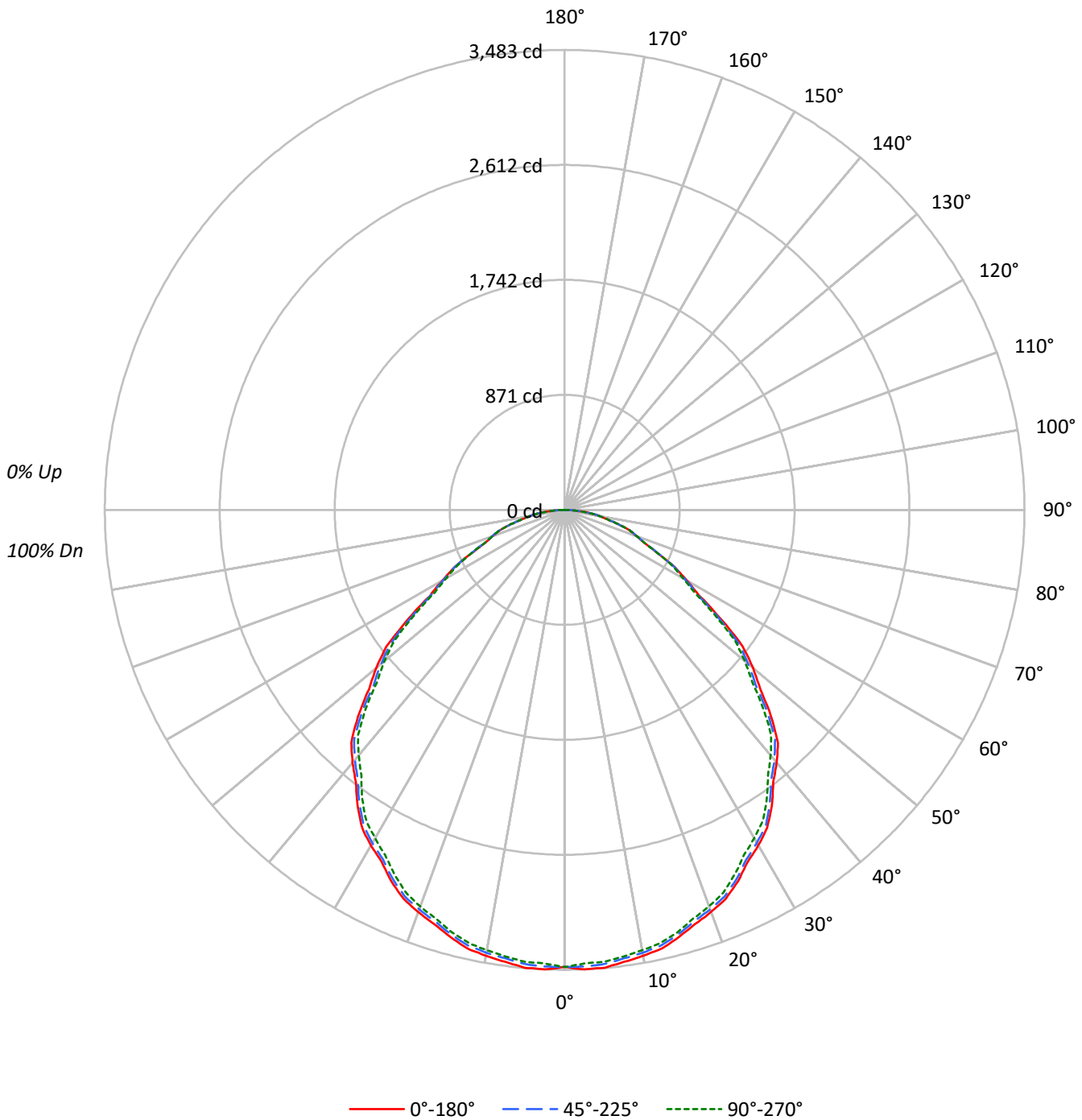
Lumens per Lamp: N/A
Luminaire Lumens: 8654.6 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 79.4
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°	10647	10647	10647
5°	10743	10660	10605
10°	10709	10634	10578
15°	10662	10595	10538
20°	10608	10540	10462
25°	10533	10463	10341
30°	10420	10346	10198
35°	10266	10176	10031
40°	10032	9924	9745
45°	9623	9454	9260
50°	8902	8689	8517
55°	7770	7594	7435
60°	6548	6493	6364
65°	5664	5686	5642
70°	5202	5229	5229
75°	4995	4995	5031
80°	4700	4754	4700
85°	3786	4210	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.4	3.8
10°-20°	936.7	10.8
20°-30°	1412.8	16.3
30°-40°	1683.3	19.5
40°-50°	1659.6	19.2
50°-60°	1268.4	14.7
60°-70°	784.9	9.1
70°-80°	445.8	5.2
80°-90°	135.6	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°	2676.9	30.9
0°-40°	4360.2	50.4
0°-60°	7288.2	84.2
0°-90°	8654.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8654.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3462	3462	3462	3462	3462	
5°	3480	3442	3453	3441	3435	330
15°	3349	3314	3328	3316	3310	945
25°	3104	3066	3083	3050	3048	1429
35°	2734	2702	2710	2675	2672	1707
45°	2213	2183	2174	2135	2129	1695
55°	1449	1426	1416	1392	1387	1299
65°	778	772	781	775	775	788
75°	420	420	420	423	423	444
85°	107	113	119	119	119	129
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3462.0	3462.0	3462.0	3462.0	3462.0
2.5°	3483.4	3453.1	3462.0	3454.4	3438.1
5°	3479.9	3442.0	3453.0	3441.0	3435.1
7.5°	3453.0	3415.7	3426.8	3414.8	3411.3
10°	3429.2	3394.2	3405.3	3393.3	3387.4
12.5°	3402.9	3365.6	3379.1	3364.6	3358.8
15°	3348.7	3313.7	3327.8	3315.7	3309.9
17.5°	3289.0	3251.7	3265.8	3251.9	3244.3
20°	3241.3	3206.3	3220.4	3199.5	3196.6
22.5°	3188.8	3153.8	3168.0	3139.9	3139.3
25°	3104.1	3066.2	3083.3	3050.4	3047.5
27.5°	3003.4	2968.4	2982.5	2949.0	2945.5
30°	2934.2	2899.2	2913.3	2877.4	2871.6
32.5°	2855.5	2822.8	2834.6	2798.7	2795.2
35°	2734.4	2702.3	2710.5	2674.7	2671.8
37.5°	2596.6	2567.5	2572.2	2532.7	2529.8
40°	2498.8	2469.7	2472.0	2430.2	2427.3
42.5°	2391.5	2362.3	2359.9	2318.1	2315.1
45°	2212.6	2183.4	2173.8	2134.9	2129.1
47.5°	2008.6	1979.4	1961.5	1929.8	1925.7
50°	1860.7	1831.5	1816.0	1788.9	1780.2
52.5°	1700.9	1671.7	1658.5	1633.9	1625.1
55°	1449.2	1425.9	1416.4	1392.4	1386.6
57.5°	1210.0	1194.3	1191.6	1168.3	1165.9
60°	1064.5	1055.8	1055.6	1034.7	1034.7
62.5°	940.5	934.1	938.7	924.9	922.6
65°	778.3	772.4	781.3	775.3	775.3
67.5°	650.1	650.1	655.4	653.0	653.0
70°	578.5	578.5	581.5	581.5	581.5
72.5°	514.1	511.7	519.4	519.4	517.1
75°	420.4	420.4	420.4	423.4	423.4
77.5°	327.4	328.0	330.4	329.7	327.4
80°	265.4	268.3	268.4	265.4	265.4
82.5°	203.4	206.3	206.3	205.7	203.4
85°	107.3	113.2	119.3	119.3	119.3
87.5°	31.0	40.3	47.7	47.7	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)