

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: P564457

Luminaire Tested: **SQ4-PR1-150U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564457
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

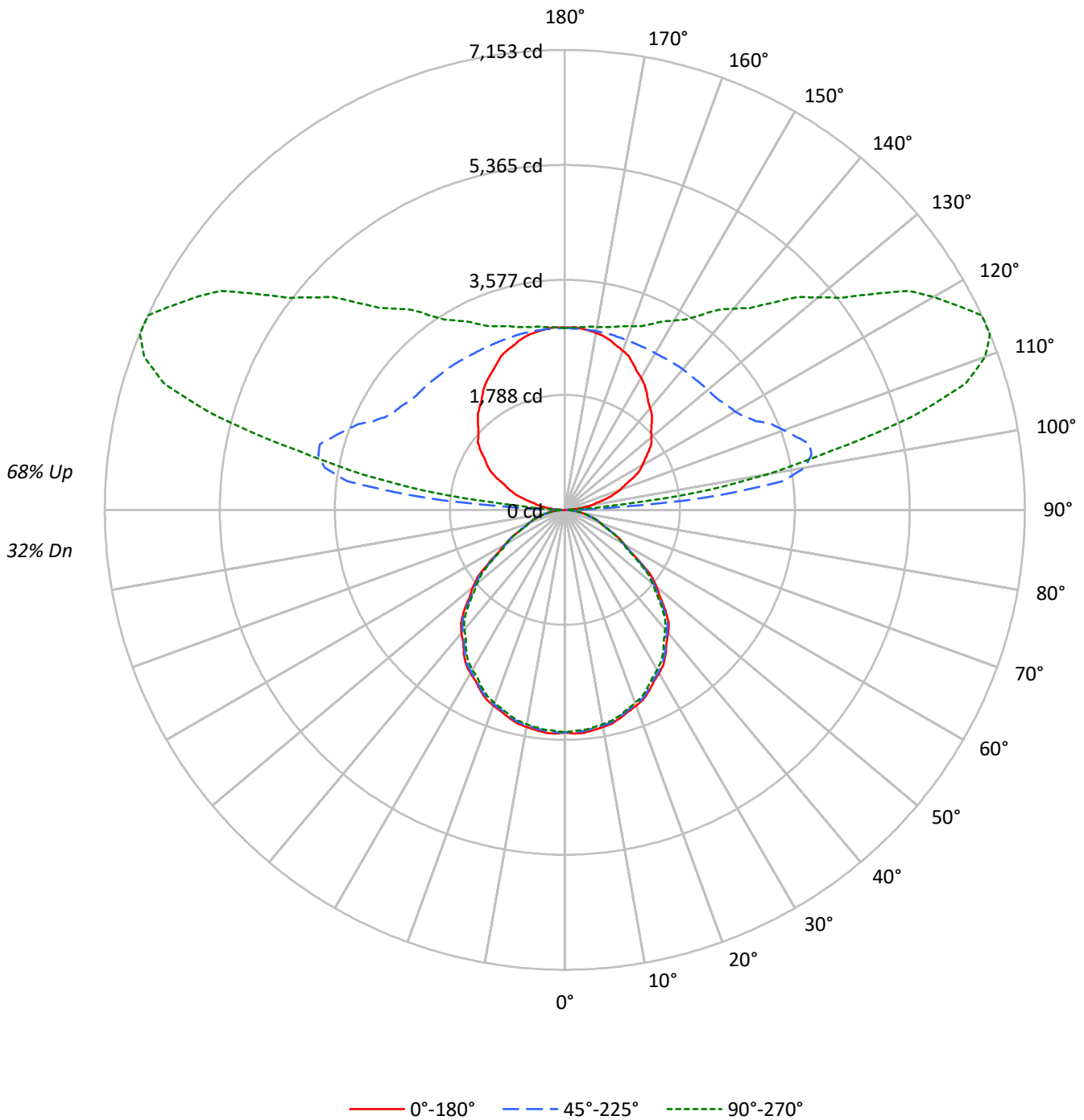
Lumens per Lamp: N/A
Luminaire Lumens: 26914.2 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 194.9
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	65	62	60	49	48	47	35	35	34	27
2	86	79	73	68	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	57	70	63	57	52	50	46	42	39	36	33	28	26	25	20
4	72	61	54	48	64	55	49	44	45	40	36	34	31	29	25	23	21	17
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	20	19	15
6	60	49	41	35	54	44	38	33	36	31	27	28	24	22	20	18	16	13
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	19	16	15	12
8	52	40	32	27	46	36	30	25	30	25	21	23	20	17	17	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12	10
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	12	11	9

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	1.2
10°-20°	936.7	3.5
20°-30°	1412.8	5.2
30°-40°	1683.3	6.3
40°-50°	1659.6	6.2
50°-60°	1268.4	4.7
60°-70°	784.9	2.9
70°-80°	445.8	1.7
80°-90°	141.5	0.5
90°-100°	1315.8	4.9
100°-110°	3557.5	13.2
110°-120°	3740.2	13.9
120°-130°	3038.1	11.3
130°-140°	2383.1	8.9
140°-150°	1829.1	6.8
150°-160°	1315.4	4.9
160°-170°	803.6	3.0
170°-180°	270.9	1.0
0°-30°	2676.9	9.9
0°-40°	4360.2	16.2
0°-60°	7288.2	27.1
0°-90°	8660.5	32.2
90°-120°	8613.5	32.0
90°-150°	15863.8	58.9
90°-180°	18254.0	67.8
0°-180°	26914.2	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	125
90°	6	18	40	43	40	18
95°	204	717	2188	1132	674	214
105°	661	1022	3947	5822	5583	696
115°	1164	1423	3273	6336	7153	1150
125°	1594	1826	2950	4978	5848	1421
135°	1911	2137	2871	4020	4550	1477
145°	2222	2388	2831	3441	3703	1390
155°	2508	2606	2807	3086	3188	1157
165°	2731	2757	2819	2929	2944	769
175°	2834	2831	2822	2858	2852	269
180°	2831	2831	2831	2831	2831	

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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°	32.2	43.9	55.6	56.2	53.2
90°	6.1	18.0	39.6	42.6	39.6
92.5°	86.6	315.4	622.3	270.1	195.7
95°	204.2	716.7	2188.2	1132.4	673.5
97.5°	327.9	822.0	3410.8	2822.7	2073.0
100°	420.6	864.6	3791.2	3953.8	3196.9
102.5°	505.9	923.7	3925.3	4811.4	4245.3
105°	661.3	1021.9	3946.6	5821.5	5583.1
107.5°	805.2	1134.1	3774.1	6451.7	6530.9
110°	917.3	1215.3	3620.5	6620.9	6957.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1017.3	1296.2	3479.1	6587.1	7152.6
115°	1164.2	1423.4	3273.1	6336.2	7152.6
117.5°	1308.0	1551.2	3137.2	5952.8	6878.3
120°	1395.8	1634.2	3056.7	5677.7	6622.4
122.5°	1478.7	1712.3	3007.9	5382.9	6334.7
125°	1593.9	1826.3	2950.0	4978.2	5848.3
127.5°	1699.9	1928.2	2915.9	4647.9	5413.1
130°	1758.4	1993.9	2901.3	4443.8	5135.1
132.5°	1819.4	2052.4	2886.7	4259.7	4896.2
135°	1910.8	2137.3	2870.8	4019.6	4550.0
137.5°	2002.9	2216.8	2857.4	3824.8	4256.8
140°	2066.2	2265.9	2852.5	3699.3	4083.7
142.5°	2127.2	2314.9	2842.8	3586.1	3922.8
145°	2221.7	2388.5	2831.2	3440.6	3702.8
147.5°	2307.6	2455.4	2817.8	3308.7	3510.2
150°	2371.0	2502.1	2812.9	3237.1	3398.0
152.5°	2429.5	2543.9	2810.5	3170.6	3302.9
155°	2508.1	2606.5	2806.8	3086.4	3187.8
157.5°	2589.8	2658.4	2807.4	3027.7	3094.5
160°	2636.1	2692.8	2809.9	2990.7	3038.4
162.5°	2672.7	2719.8	2812.3	2961.2	2997.0
165°	2730.6	2757.4	2819.0	2929.0	2943.9
167.5°	2770.2	2788.7	2819.6	2901.4	2908.6
170°	2794.6	2803.6	2822.0	2889.1	2889.1
172.5°	2814.1	2815.9	2822.0	2874.4	2872.0
175°	2834.2	2831.3	2822.0	2858.5	2852.5
177.5°	2840.9	2833.8	2821.4	2845.7	2838.5
180°	2831.2	2831.2	2831.2	2831.2	2831.2

(END OF REPORT)