

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: P565125

Luminaire Tested: **SQ4-PW1-150U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565125
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26602.9 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

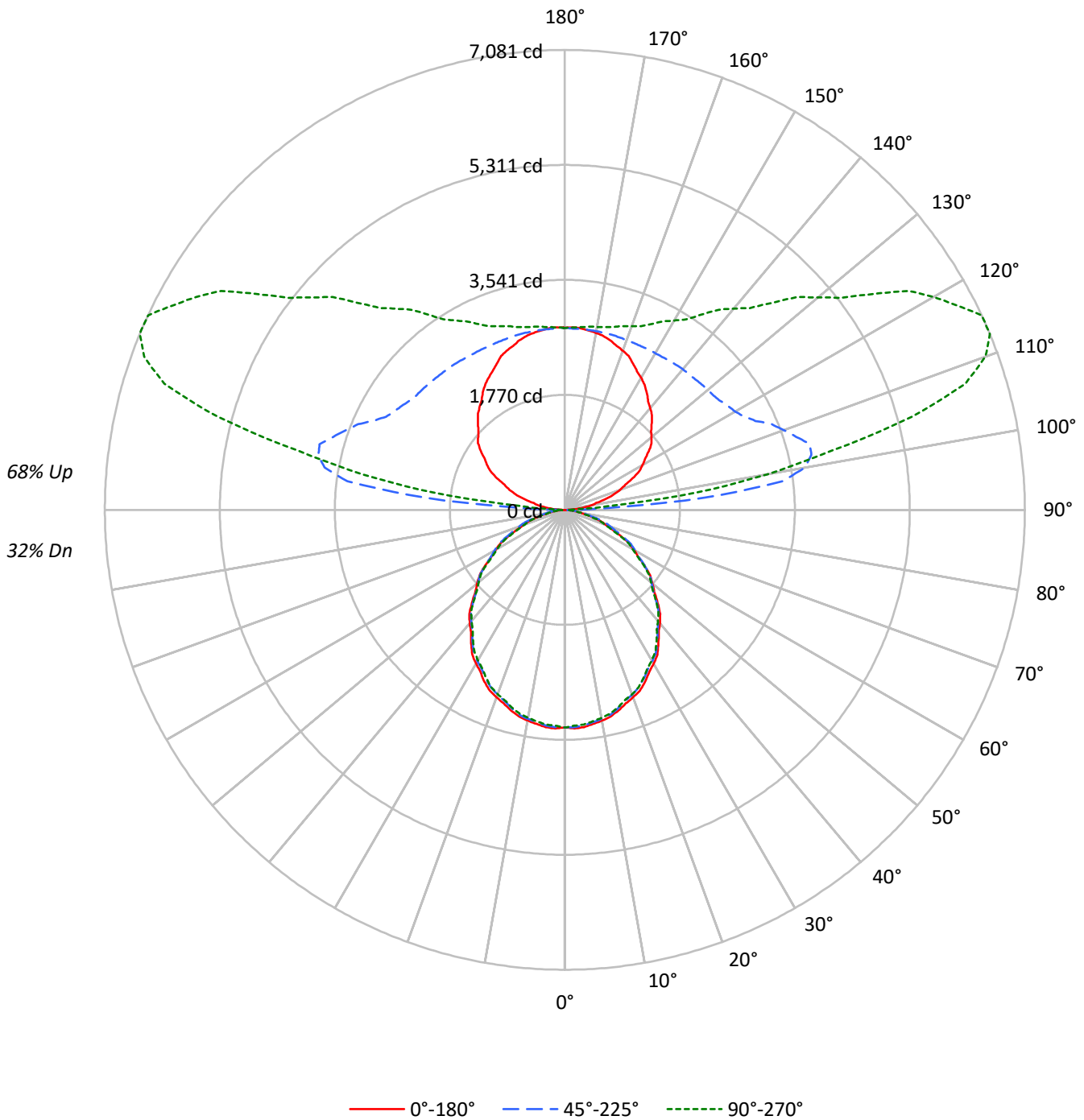
Input Watts (W): 194.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	64	62	60	49	48	46	35	34	34	27		
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23		
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19		
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17		
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14		
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13		
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11		
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10		
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9		
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10150
15°	10180	10067	10029
20°	10058	9903	9884
25°	9918	9737	9707
30°	9708	9561	9498
35°	9432	9299	9244
40°	9138	8996	8960
45°	8782	8667	8629
50°	8418	8347	8291
55°	8026	8026	7898
60°	7536	7681	7409
65°	6896	7240	6724
70°	6079	6663	5919
75°	5191	5964	5051
80°	4026	5019	4079
85°	2604	3853	3437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.5	1.2
10°-20°	890.8	3.3
20°-30°	1321.4	5.0
30°-40°	1546.1	5.8
40°-50°	1539.2	5.8
50°-60°	1329.2	5.0
60°-70°	956.8	3.6
70°-80°	501.7	1.9
80°-90°	130.2	0.5
90°-100°	1302.7	4.9
100°-110°	3522.1	13.2
110°-120°	3703.0	13.9
120°-130°	3007.8	11.3
130°-140°	2359.4	8.9
140°-150°	1810.8	6.8
150°-160°	1302.3	4.9
160°-170°	795.6	3.0
170°-180°	268.2	1.0
0°-30°	2527.7	9.5
0°-40°	4073.8	15.3
0°-60°	6942.3	26.1
0°-90°	8531.0	32.1
90°-120°	8527.7	32.1
90°-150°	15705.8	59.0
90°-180°	18072.0	67.9
0°-180°	26602.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3351	3351	3351	3351	3351	
5°	3360	3322	3333	3324	3318	318
15°	3197	3157	3162	3156	3150	901
25°	2923	2874	2870	2852	2861	1344
35°	2512	2478	2477	2454	2462	1571
45°	2019	2002	1993	1987	1984	1558
55°	1497	1494	1497	1476	1473	1335
65°	948	976	995	956	924	939
75°	437	477	502	468	425	468
85°	74	97	109	103	97	97
90°	6	18	39	42	39	16
95°	202	710	2166	1121	667	212
105°	655	1012	3907	5764	5528	690
115°	1153	1409	3240	6273	7081	1138
125°	1578	1808	2921	4929	5790	1407
135°	1892	2116	2842	3980	4505	1462
145°	2200	2365	2803	3406	3666	1376
155°	2483	2580	2779	3056	3156	1145
165°	2703	2730	2791	2900	2915	762
175°	2806	2803	2794	2830	2824	266
180°	2803	2803	2803	2803	2803	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3369.6	3341.9	3350.7	3343.3	3327.1
5°	3359.6	3322.1	3333.0	3324.0	3318.3
7.5°	3325.3	3290.7	3298.8	3289.2	3285.8
10°	3294.6	3260.0	3268.1	3256.1	3250.4
12.5°	3259.2	3222.3	3230.3	3218.4	3214.9
15°	3197.2	3156.8	3161.8	3155.8	3150.0
17.5°	3125.2	3084.2	3085.0	3075.6	3074.4
20°	3073.2	3029.9	3026.0	3014.3	3020.1
22.5°	3016.5	2970.9	2966.9	2950.6	2958.7
25°	2922.7	2873.6	2869.5	2852.0	2860.7
27.5°	2814.0	2765.5	2765.6	2741.0	2750.3
30°	2733.7	2687.5	2692.4	2663.1	2674.7
32.5°	2648.7	2607.1	2609.7	2580.5	2592.0
35°	2512.3	2477.7	2476.9	2453.5	2462.1
37.5°	2373.0	2342.4	2337.5	2324.0	2326.3
40°	2276.1	2250.2	2240.7	2231.9	2231.9
42.5°	2174.6	2150.9	2141.5	2135.0	2132.7
45°	2019.3	2002.0	1992.7	1986.8	1983.9
47.5°	1865.8	1849.6	1841.6	1837.4	1834.5
50°	1759.5	1748.0	1744.7	1735.8	1732.9
52.5°	1653.2	1646.3	1643.2	1631.9	1629.0
55°	1496.8	1493.9	1496.8	1476.0	1473.1
57.5°	1333.8	1338.4	1348.0	1320.1	1313.1
60°	1225.2	1236.7	1248.8	1216.0	1204.5
62.5°	1114.2	1132.6	1149.6	1112.0	1095.9
65°	947.7	976.5	994.9	955.8	924.0
67.5°	787.1	822.8	844.9	802.8	767.0
70°	676.1	716.5	741.0	698.8	658.3
72.5°	579.2	624.3	644.2	604.3	563.9
75°	436.9	477.3	501.9	468.4	425.1
77.5°	310.0	348.1	368.4	339.3	303.5
80°	227.3	267.7	283.4	259.1	230.3
82.5°	161.2	194.7	205.5	190.9	171.2
85°	73.8	96.9	109.2	103.2	97.4
87.5°	20.1	38.6	52.7	53.4	55.1
90°	6.0	17.8	39.2	42.2	39.2
92.5°	85.7	312.3	616.1	267.5	193.7
95°	202.2	709.6	2166.4	1121.1	666.8
97.5°	324.7	813.8	3376.9	2794.6	2052.3
100°	416.4	855.9	3753.4	3914.4	3165.0
102.5°	500.9	914.5	3886.2	4763.5	4203.0
105°	654.7	1011.7	3907.3	5763.5	5527.5
107.5°	797.1	1122.8	3736.5	6387.4	6465.9
110°	908.2	1203.2	3584.4	6554.9	6888.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1007.1	1283.3	3444.4	6521.4	7081.4
115°	1152.6	1409.2	3240.5	6273.0	7081.4
117.5°	1295.0	1535.7	3105.9	5893.5	6809.8
120°	1381.9	1617.9	3026.3	5621.2	6556.4
122.5°	1463.9	1695.2	2978.0	5329.3	6271.6
125°	1578.0	1808.1	2920.7	4928.6	5790.0
127.5°	1683.0	1909.0	2886.9	4601.6	5359.2
130°	1740.9	1974.0	2872.4	4399.5	5084.0
132.5°	1801.3	2032.0	2857.9	4217.3	4847.4
135°	1891.8	2116.0	2842.2	3979.6	4504.7
137.5°	1982.9	2194.7	2828.9	3786.7	4214.4
140°	2045.7	2243.3	2824.1	3662.5	4043.1
142.5°	2106.0	2291.9	2814.4	3550.4	3883.7
145°	2199.5	2364.7	2803.0	3406.3	3665.9
147.5°	2284.6	2431.0	2789.7	3275.8	3475.2
150°	2347.4	2477.2	2784.9	3204.9	3364.2
152.5°	2405.3	2518.6	2782.5	3139.1	3270.0
155°	2483.2	2580.5	2778.8	3055.7	3156.0
157.5°	2564.0	2631.9	2779.4	2997.6	3063.7
160°	2609.9	2665.9	2781.9	2960.9	3008.2
162.5°	2646.1	2692.7	2784.3	2931.7	2967.1
165°	2703.4	2730.0	2790.9	2899.9	2914.6
167.5°	2742.6	2760.9	2791.5	2872.5	2879.6
170°	2766.8	2775.6	2793.9	2860.3	2860.3
172.5°	2786.1	2787.9	2793.9	2845.8	2843.4
175°	2806.0	2803.0	2793.9	2830.0	2824.1
177.5°	2812.6	2805.6	2793.3	2817.3	2810.2
180°	2803.0	2803.0	2803.0	2803.0	2803.0

(END OF REPORT)