

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: P519619

Luminaire Tested: **SQ4-WB-150U-125D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519619
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

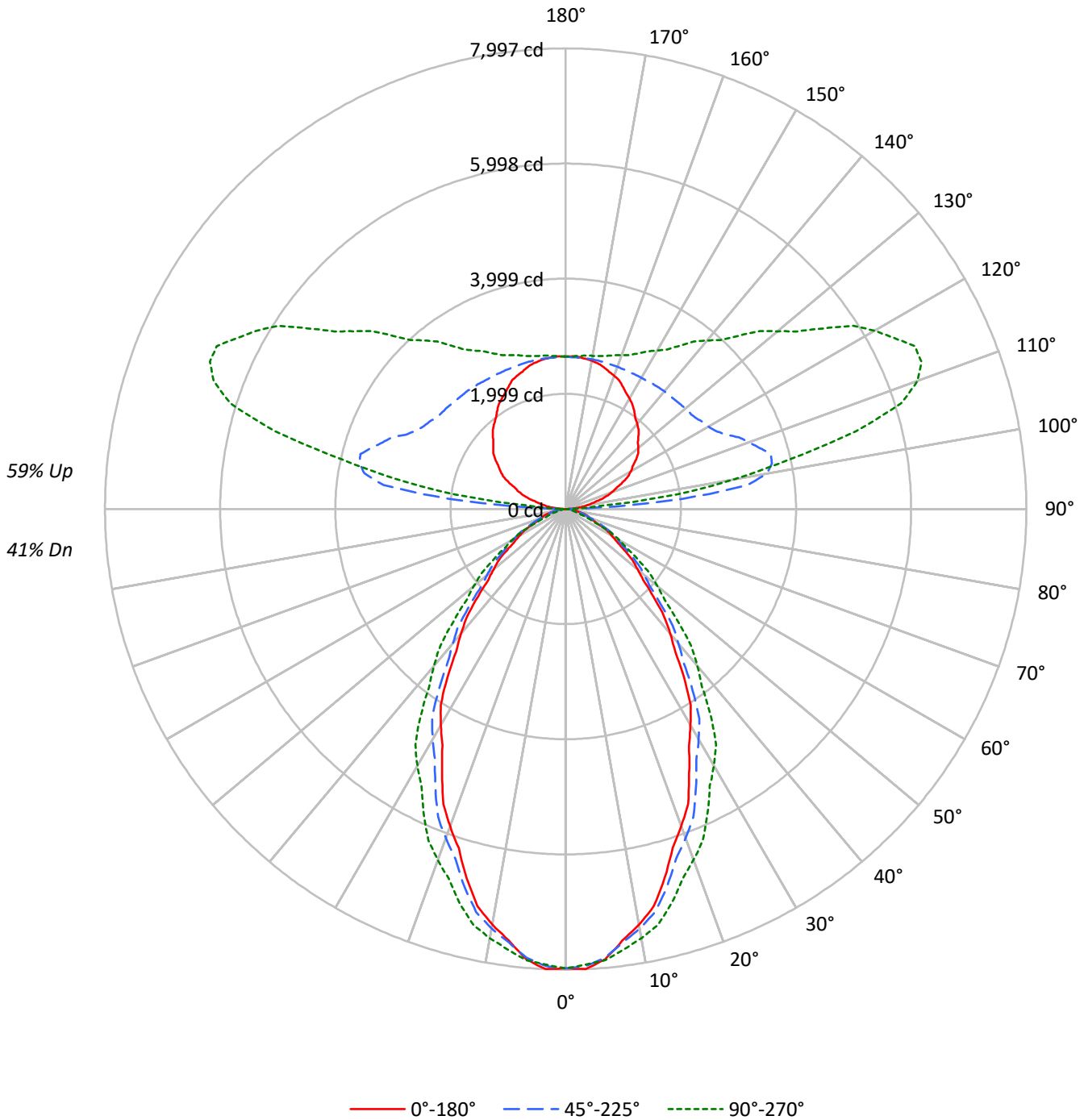
Lumens per Lamp: N/A
Luminaire Lumens: 28687.3 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 256.3
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23096	23632
15°	21130	21620	22589
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7804	8507	9931
55°	6625	7301	8201
60°	5662	6330	6545
65°	4508	5323	4228
70°	3997	4154	2581
75°	3701	3369	1580
80°	3409	3099	1364
85°	3088	2841	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.7	2.6
10°-20°	1903.1	6.6
20°-30°	2465.1	8.6
30°-40°	2413.9	8.4
40°-50°	1847.7	6.4
50°-60°	1231.2	4.3
60°-70°	671.9	2.3
70°-80°	280.0	1.0
80°-90°	84.8	0.3
90°-100°	1229.6	4.3
100°-110°	3324.5	11.6
110°-120°	3495.2	12.2
120°-130°	2839.1	9.9
130°-140°	2227.0	7.8
140°-150°	1709.2	6.0
150°-160°	1229.3	4.3
160°-170°	750.9	2.6
170°-180°	253.2	0.9
0°-30°	5099.9	17.8
0°-40°	7513.8	26.2
0°-60°	10592.8	36.9
0°-90°	11629.4	40.5
90°-120°	8049.2	28.1
90°-150°	14824.5	51.7
90°-180°	17058.0	59.5
0°-180°	28687.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7977	7977	7977	7977	7977	
5°	7848	7769	7820	7838	7865	730
15°	6636	6612	6790	6975	7095	1853
25°	5072	5086	5348	5581	5828	2332
35°	3584	3601	3843	4102	4393	2228
45°	2149	2190	2335	2511	2741	1676
55°	1236	1287	1362	1413	1530	1120
65°	620	671	732	639	581	644
75°	312	312	284	195	133	333
85°	88	88	80	52	32	95
90°	6	17	37	40	37	17
95°	191	670	2045	1058	629	200
105°	618	955	3688	5440	5217	651
115°	1088	1330	3059	5921	6684	1074
125°	1490	1707	2757	4652	5465	1328
135°	1786	1997	2683	3756	4252	1380
145°	2076	2232	2646	3215	3460	1299
155°	2344	2436	2623	2884	2979	1081
165°	2552	2577	2634	2737	2751	719
175°	2649	2646	2637	2671	2666	251
180°	2646	2646	2646	2646	2646	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7977.0	7977.0	7977.0	7977.0	7977.0
2.5°	7996.6	7925.4	7943.4	7942.9	7921.0
5°	7847.5	7768.7	7819.5	7837.6	7865.0
7.5°	7556.2	7496.7	7589.1	7657.6	7713.1
10°	7329.4	7278.1	7395.9	7495.6	7567.4
12.5°	7066.2	7023.1	7169.1	7302.9	7396.6
15°	6636.4	6612.4	6790.4	6975.1	7094.9
17.5°	6176.5	6164.8	6369.0	6584.6	6737.9
20°	5862.8	5859.4	6083.4	6307.9	6485.9
22.5°	5546.4	5554.0	5789.3	6022.9	6225.5
25°	5071.8	5085.5	5348.3	5581.4	5827.8
27.5°	4632.9	4639.0	4910.8	5156.9	5419.7
30°	4333.3	4350.4	4616.8	4871.5	5145.3
32.5°	4033.6	4053.5	4314.4	4577.6	4856.9
35°	3584.2	3601.3	3843.2	4101.9	4392.8
37.5°	3120.8	3144.1	3358.8	3603.3	3889.4
40°	2821.2	2855.4	3045.2	3275.6	3556.2
42.5°	2532.7	2575.2	2751.2	2969.7	3223.0
45°	2149.1	2190.2	2334.6	2511.4	2740.7
47.5°	1818.7	1865.9	1976.9	2129.1	2324.8
50°	1631.1	1675.6	1778.1	1890.8	2075.6
52.5°	1465.9	1510.4	1601.7	1688.6	1846.0
55°	1235.6	1286.9	1361.6	1413.2	1529.6
57.5°	1046.6	1095.8	1155.1	1178.4	1248.9
60°	920.6	975.3	1029.1	1026.4	1064.1
62.5°	805.7	852.3	905.9	868.8	870.9
65°	619.5	670.9	731.5	639.2	581.0
67.5°	500.5	511.5	574.0	445.8	376.6
70°	444.5	444.5	462.0	345.2	287.0
72.5°	391.3	391.3	375.2	280.7	219.8
75°	311.5	311.5	283.5	194.6	133.0
77.5°	240.1	237.4	217.0	145.2	96.6
80°	192.5	192.5	175.0	114.7	77.0
82.5°	150.5	150.5	135.8	89.6	57.4
85°	87.5	87.5	80.5	52.0	31.5
87.5°	31.9	34.2	35.4	24.7	21.4
90°	5.7	16.8	37.0	39.8	37.0
92.5°	80.9	294.7	581.5	252.5	182.8
95°	190.8	669.8	2044.8	1058.2	629.4
97.5°	306.4	768.1	3187.4	2637.8	1937.2
100°	393.0	807.9	3542.8	3694.8	2987.5
102.5°	472.8	863.2	3668.1	4496.2	3967.1
105°	618.0	954.9	3688.0	5440.1	5217.4
107.5°	752.4	1059.8	3526.9	6029.0	6103.1
110°	857.2	1135.7	3383.3	6187.1	6501.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	950.6	1211.3	3251.2	6155.5	6684.1
115°	1087.9	1330.2	3058.7	5921.1	6684.1
117.5°	1222.3	1449.6	2931.6	5562.8	6427.7
120°	1304.3	1527.1	2856.5	5305.8	6188.5
122.5°	1381.8	1600.1	2810.9	5030.3	5919.7
125°	1489.5	1706.7	2756.8	4652.0	5465.1
127.5°	1588.6	1801.9	2724.9	4343.4	5058.5
130°	1643.2	1863.2	2711.2	4152.7	4798.7
132.5°	1700.2	1918.0	2697.5	3980.7	4575.5
135°	1785.6	1997.3	2682.7	3756.3	4251.9
137.5°	1871.6	2071.6	2670.2	3574.2	3978.0
140°	1930.9	2117.5	2665.6	3457.0	3816.2
142.5°	1987.8	2163.3	2656.5	3351.2	3665.8
145°	2076.1	2232.1	2645.7	3215.2	3460.2
147.5°	2156.4	2294.6	2633.2	3092.0	3280.2
150°	2215.7	2338.2	2628.6	3025.1	3175.4
152.5°	2270.4	2377.3	2626.3	2962.9	3086.6
155°	2343.8	2435.7	2622.9	2884.2	2978.9
157.5°	2420.2	2484.2	2623.5	2829.4	2891.8
160°	2463.4	2516.4	2625.8	2794.8	2839.4
162.5°	2497.6	2541.6	2628.1	2767.2	2800.6
165°	2551.7	2576.8	2634.3	2737.2	2751.1
167.5°	2588.8	2606.0	2634.9	2711.4	2718.0
170°	2611.5	2619.9	2637.2	2699.8	2699.8
172.5°	2629.8	2631.4	2637.2	2686.1	2683.9
175°	2648.6	2645.8	2637.2	2671.2	2665.6
177.5°	2654.8	2648.1	2636.6	2659.2	2652.5
180°	2645.7	2645.7	2645.7	2645.7	2645.7

(END OF REPORT)