

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: P519605

Luminaire Tested: **SQ4-WB-150U-100D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519605
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-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

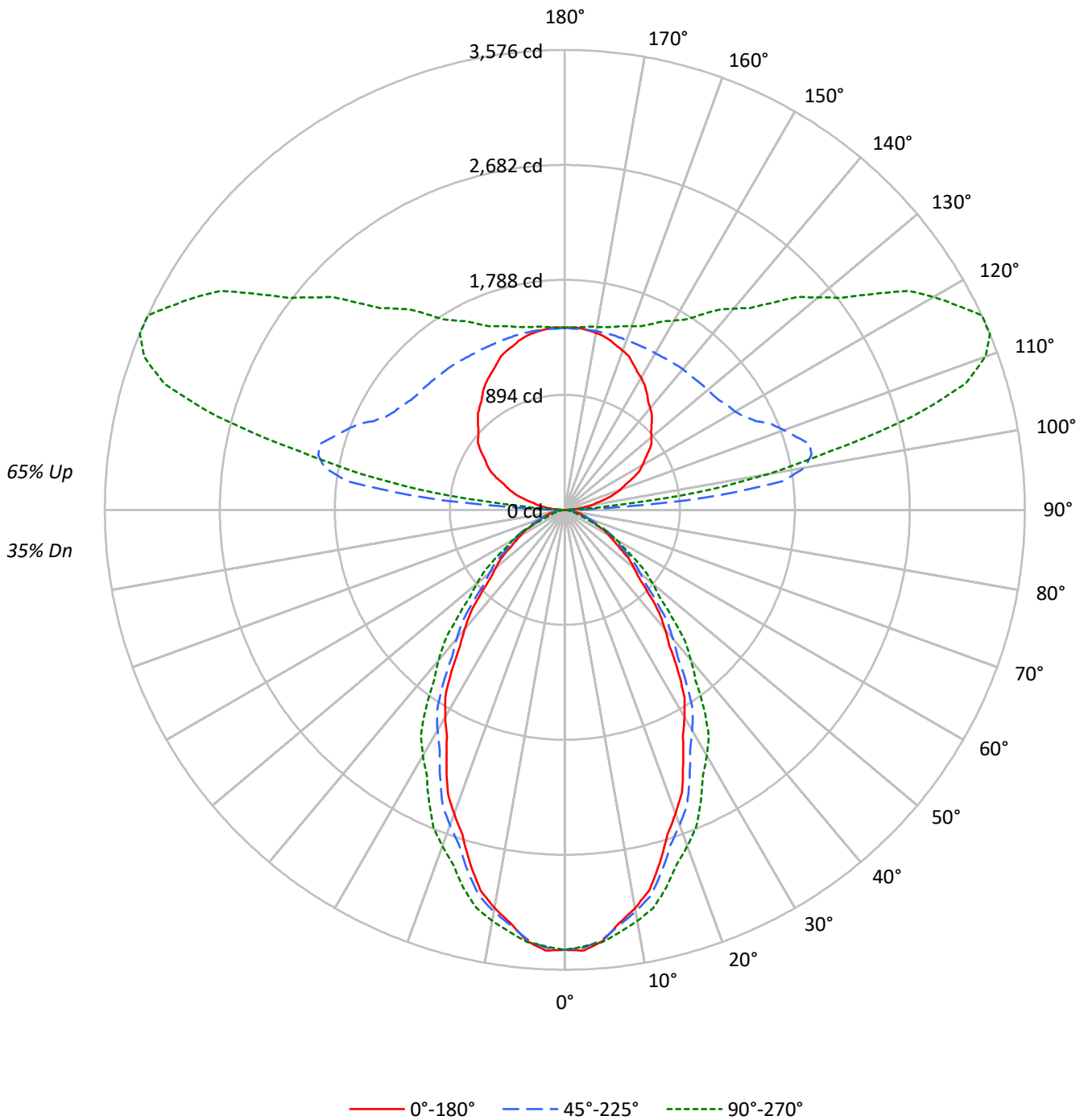
Lumens per Lamp: N/A
Luminaire Lumens: 14115.1 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35				
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	38	31				
2	87	81	75	71	79	73	69	65	60	56	54	47	45	43	35	34	33	28				
3	80	72	65	60	73	65	60	55	53	49	46	42	40	37	32	30	29	24				
4	74	64	57	51	67	58	52	47	48	44	40	38	35	33	29	27	26	22				
5	68	57	50	44	62	53	46	41	43	39	35	35	31	29	27	25	23	20				
6	63	52	44	39	57	47	41	36	39	35	31	32	28	26	25	22	21	18				
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16				
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15				
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13				
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21043	21043	21043
5°	20780	20706	20827
10°	19633	19811	20270
15°	18124	18545	19377
20°	16459	17077	18208
25°	14762	15567	16963
30°	13199	14063	15673
35°	11542	12377	14146
40°	9715	10486	12246
45°	8017	8710	10224
50°	6693	7297	8518
55°	5682	6263	7035
60°	4857	5429	5614
65°	3867	4566	3627
70°	3428	3564	2214
75°	3175	2890	1355
80°	2926	2660	1169
85°	2646	2435	953



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	2.2
10°-20°	816.2	5.8
20°-30°	1057.2	7.5
30°-40°	1035.3	7.3
40°-50°	792.5	5.6
50°-60°	528.1	3.7
60°-70°	288.1	2.0
70°-80°	120.1	0.9
80°-90°	36.9	0.3
90°-100°	657.9	4.7
100°-110°	1778.8	12.6
110°-120°	1870.1	13.2
120°-130°	1519.0	10.8
130°-140°	1191.6	8.4
140°-150°	914.5	6.5
150°-160°	657.7	4.7
160°-170°	401.8	2.8
170°-180°	135.5	1.0
0°-30°	2187.2	15.5
0°-40°	3222.5	22.8
0°-60°	4543.0	32.2
0°-90°	4988.2	35.3
90°-120°	4306.8	30.5
90°-150°	7931.9	56.2
90°-180°	9127.0	64.7
0°-180°	14115.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3421	3421	3421	3421	3421	
5°	3366	3332	3354	3361	3373	313
15°	2846	2836	2912	2992	3043	795
25°	2175	2181	2294	2394	2499	1000
35°	1537	1544	1648	1759	1884	956
45°	922	939	1001	1077	1175	719
55°	530	552	584	606	656	480
65°	266	288	314	274	249	276
75°	134	134	122	84	57	143
85°	38	38	34	22	14	41
90°	3	9	20	21	20	9
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3421.2	3421.2	3421.2	3421.2	3421.2
2.5°	3429.6	3399.0	3406.7	3406.5	3397.1
5°	3365.6	3331.9	3353.6	3361.4	3373.1
7.5°	3240.7	3215.2	3254.8	3284.2	3308.0
10°	3143.4	3121.4	3172.0	3214.7	3245.5
12.5°	3030.6	3012.1	3074.7	3132.0	3172.3
15°	2846.2	2835.9	2912.3	2991.5	3042.9
17.5°	2649.0	2644.0	2731.5	2824.0	2889.7
20°	2514.5	2513.0	2609.0	2705.3	2781.7
22.5°	2378.7	2382.0	2482.9	2583.1	2670.0
25°	2175.2	2181.1	2293.8	2393.8	2499.4
27.5°	1986.9	1989.6	2106.1	2211.7	2324.4
30°	1858.4	1865.8	1980.0	2089.3	2206.7
32.5°	1729.9	1738.5	1850.3	1963.2	2083.0
35°	1537.2	1544.5	1648.3	1759.2	1884.0
37.5°	1338.4	1348.4	1440.5	1545.4	1668.1
40°	1209.9	1224.6	1306.0	1404.8	1525.2
42.5°	1086.2	1104.4	1179.9	1273.7	1382.3
45°	921.7	939.3	1001.3	1077.1	1175.4
47.5°	780.0	800.3	847.9	913.1	997.1
50°	699.5	718.6	762.6	810.9	890.2
52.5°	628.7	647.8	686.9	724.2	791.7
55°	529.9	551.9	584.0	606.1	656.0
57.5°	448.8	470.0	495.4	505.4	535.6
60°	394.8	418.3	441.3	440.2	456.4
62.5°	345.6	365.5	388.5	372.6	373.5
65°	265.7	287.7	313.7	274.1	249.2
67.5°	214.7	219.4	246.2	191.2	161.5
70°	190.6	190.6	198.2	148.0	123.1
72.5°	167.8	167.8	160.9	120.4	94.3
75°	133.6	133.6	121.6	83.5	57.0
77.5°	103.0	101.8	93.1	62.3	41.4
80°	82.6	82.6	75.1	49.2	33.0
82.5°	64.6	64.6	58.2	38.4	24.6
85°	37.5	37.5	34.5	22.3	13.5
87.5°	13.8	15.0	16.0	11.4	10.0
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)