

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: P519543

Luminaire Tested: **SQ4-WB-125U-125D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519543
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

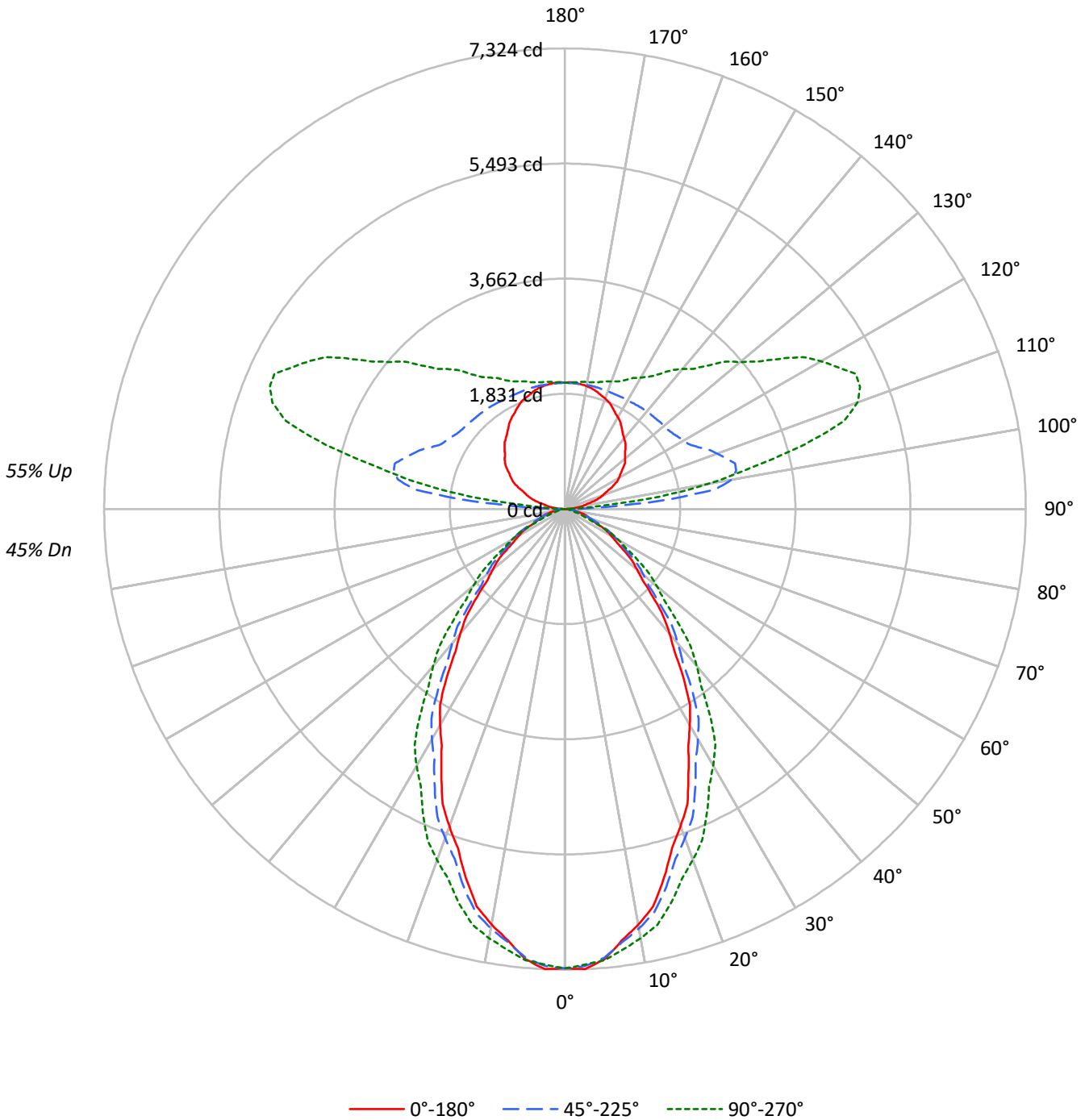
Lumens per Lamp: N/A
Luminaire Lumens: 23616.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 233.8
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22468	22468	22468
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7148	7792	9095
55°	6067	6686	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2364
75°	3390	3086	1447
80°	3122	2839	1249
85°	2826	2601	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.1	2.8
10°-20°	1743.0	7.4
20°-30°	2257.7	9.6
30°-40°	2210.9	9.4
40°-50°	1692.3	7.2
50°-60°	1127.6	4.8
60°-70°	615.3	2.6
70°-80°	256.4	1.1
80°-90°	77.3	0.3
90°-100°	939.5	4.0
100°-110°	2530.9	10.7
110°-120°	2656.1	11.2
120°-130°	2155.4	9.1
130°-140°	1690.4	7.2
140°-150°	1297.8	5.5
150°-160°	933.1	4.0
160°-170°	570.1	2.4
170°-180°	192.2	0.8
0°-30°	4670.8	19.8
0°-40°	6881.7	29.1
0°-60°	9701.6	41.1
0°-90°	10650.7	45.1
90°-120°	6126.5	25.9
90°-150°	11270.0	47.7
90°-180°	12965.0	54.9
0°-180°	23616.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7306	7306	7306	7306	7306	
5°	7187	7115	7162	7178	7203	669
15°	6078	6056	6219	6388	6498	1697
25°	4645	4658	4898	5112	5338	2136
35°	3283	3298	3520	3757	4023	2041
45°	1968	2006	2138	2300	2510	1535
55°	1132	1179	1247	1294	1401	1026
65°	567	614	670	585	532	590
75°	285	285	260	178	122	305
85°	80	80	74	48	29	87
90°	5	15	31	33	33	14
95°	143	511	1540	788	545	150
105°	468	728	2799	4188	3930	492
115°	826	1012	2331	4504	5094	813
125°	1128	1296	2093	3537	4163	1007
135°	1359	1516	2034	2854	3231	1049
145°	1571	1694	2008	2440	2620	985
155°	1783	1848	1990	2189	2259	821
165°	1934	1957	1998	2078	2088	545
175°	2011	2008	2001	2029	2024	191
180°	2008	2008	2008	2008	2008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7305.8	7305.8	7305.8	7305.8	7305.8
2.5°	7323.8	7258.6	7275.1	7274.6	7254.6
5°	7187.2	7115.1	7161.6	7178.2	7203.3
7.5°	6920.5	6866.0	6950.7	7013.4	7064.1
10°	6712.8	6665.8	6773.7	6865.0	6930.8
12.5°	6471.7	6432.2	6566.0	6688.5	6774.3
15°	6078.1	6056.1	6219.1	6388.3	6498.0
17.5°	5656.8	5646.2	5833.1	6030.6	6171.0
20°	5369.6	5366.5	5571.6	5777.2	5940.2
22.5°	5079.8	5086.7	5302.3	5516.1	5701.7
25°	4645.1	4657.6	4898.3	5111.8	5337.5
27.5°	4243.1	4248.7	4497.6	4723.0	4963.7
30°	3968.7	3984.4	4228.4	4461.7	4712.4
32.5°	3694.3	3712.5	3951.4	4192.5	4448.3
35°	3282.7	3298.3	3519.9	3756.8	4023.2
37.5°	2858.2	2879.5	3076.2	3300.2	3562.2
40°	2583.8	2615.2	2789.0	3000.0	3257.0
42.5°	2319.7	2358.5	2519.7	2719.9	2951.8
45°	1968.3	2005.9	2138.2	2300.1	2510.1
47.5°	1665.7	1709.0	1810.6	1949.9	2129.2
50°	1493.9	1534.6	1628.5	1731.7	1901.0
52.5°	1342.6	1383.3	1466.9	1546.5	1690.7
55°	1131.6	1178.6	1247.0	1294.3	1400.9
57.5°	958.5	1003.6	1057.9	1079.2	1143.8
60°	843.1	893.3	942.5	940.1	974.5
62.5°	738.0	780.6	829.6	795.7	797.6
65°	567.4	614.4	670.0	585.4	532.2
67.5°	458.4	468.4	525.7	408.3	344.9
70°	407.1	407.1	423.2	316.2	262.9
72.5°	358.4	358.4	343.7	257.1	201.3
75°	285.3	285.3	259.7	178.2	121.8
77.5°	219.9	217.4	198.8	133.0	88.5
80°	176.3	176.3	160.3	105.0	70.5
82.5°	137.8	137.8	124.4	82.0	52.6
85°	80.1	80.1	73.7	47.7	28.9
87.5°	29.2	31.2	31.8	22.0	19.5
90°	5.1	15.1	30.7	33.3	33.3
92.5°	62.4	220.5	436.0	209.9	145.8
95°	143.3	511.0	1540.2	787.6	545.0
97.5°	228.7	585.0	2415.7	2018.1	1521.8
100°	294.2	614.4	2694.1	2818.8	2338.5
102.5°	357.7	655.9	2786.2	3418.4	3024.1
105°	468.2	728.4	2799.0	4187.5	3929.8
107.5°	572.6	804.7	2679.8	4582.7	4649.3
110°	642.2	862.3	2571.3	4705.4	4948.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	715.9	920.0	2466.9	4678.3	5077.1
115°	826.4	1011.5	2330.8	4503.6	5093.9
117.5°	927.2	1100.8	2225.4	4224.7	4882.1
120°	992.7	1160.3	2172.2	4024.5	4699.9
122.5°	1050.0	1215.6	2133.3	3819.8	4493.2
125°	1128.3	1295.9	2092.8	3537.2	4162.7
127.5°	1203.5	1368.6	2067.3	3288.1	3846.4
130°	1248.5	1413.6	2057.0	3145.3	3635.6
132.5°	1293.6	1456.7	2046.8	3019.5	3469.8
135°	1358.6	1516.2	2034.0	2853.6	3231.4
137.5°	1420.5	1571.6	2027.3	2712.9	3023.1
140°	1463.5	1608.5	2021.2	2626.3	2906.4
142.5°	1508.5	1643.6	2017.1	2545.4	2781.6
145°	1570.9	1693.5	2008.4	2439.8	2619.9
147.5°	1638.5	1745.0	1999.7	2350.9	2492.5
150°	1683.5	1776.0	1995.6	2295.1	2412.6
152.5°	1724.4	1805.0	1993.6	2249.5	2345.1
155°	1783.3	1848.3	1990.5	2189.1	2259.1
157.5°	1834.9	1885.5	1991.0	2146.6	2193.6
160°	1867.7	1910.2	1993.1	2121.8	2156.8
162.5°	1896.3	1930.9	1995.1	2101.1	2126.1
165°	1934.2	1956.7	1998.2	2077.7	2087.7
167.5°	1964.9	1977.9	2000.7	2059.7	2063.7
170°	1985.4	1990.4	2000.7	2049.3	2049.3
172.5°	1997.7	1998.7	2002.8	2039.1	2039.1
175°	2011.0	2008.5	2000.7	2028.8	2023.8
177.5°	2016.6	2012.6	2002.3	2018.6	2014.5
180°	2008.4	2008.4	2008.4	2008.4	2008.4

(END OF REPORT)