

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: P519491

Luminaire Tested: **SQ4-WB-125U-075D-935-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519491
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-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

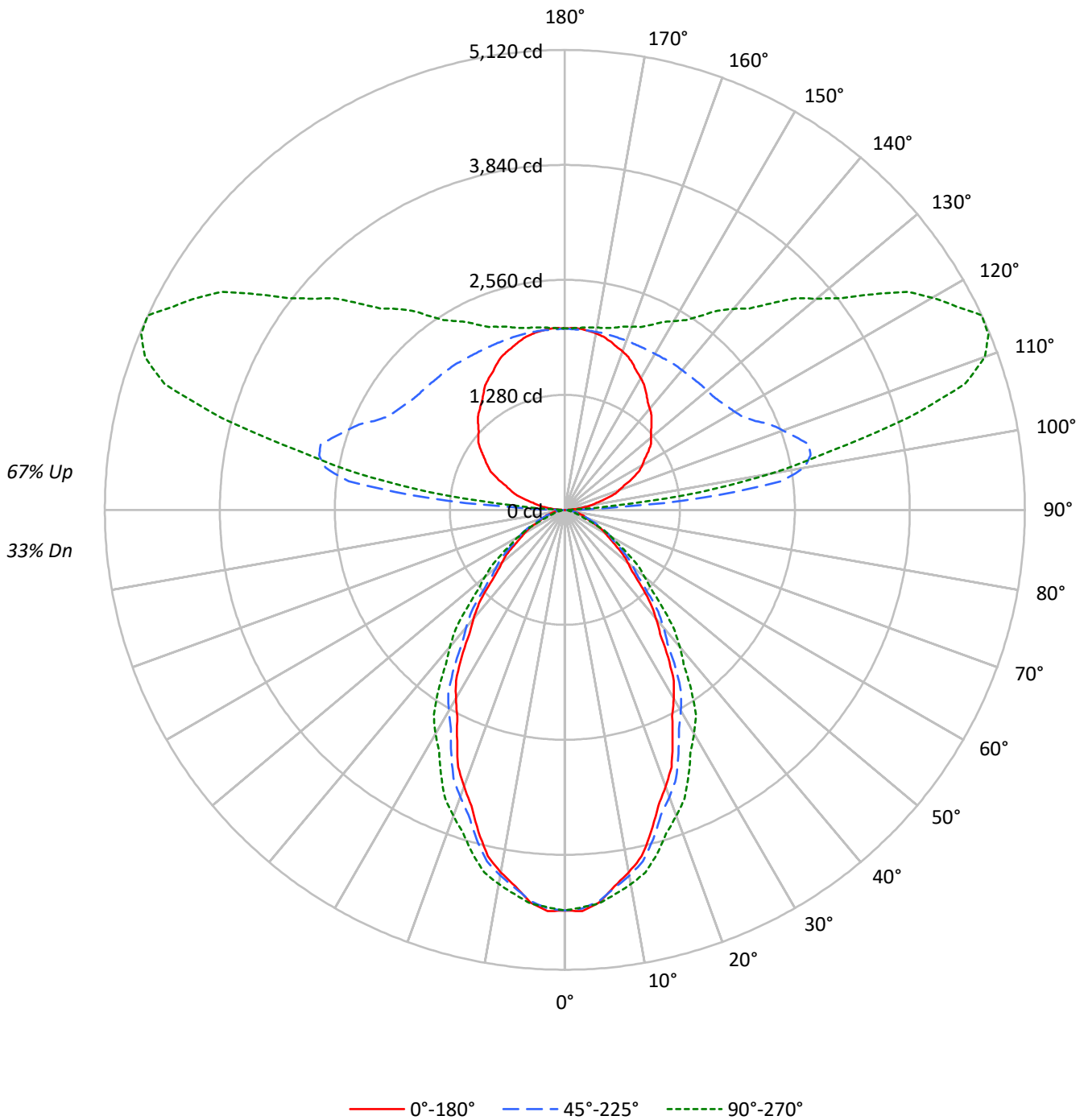
Lumens per Lamp: N/A
Luminaire Lumens: 19535.8 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 172.4
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30				
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26				
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21				
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18				
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13717	13717	13717
5°	13546	13498	13576
10°	12798	12914	13214
15°	11814	12089	12631
20°	10729	11132	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9221
40°	6333	6836	7983
45°	5227	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3660
65°	2521	2976	2364
70°	2235	2323	1443
75°	2070	1883	884
80°	1906	1734	763
85°	1725	1588	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.1	2.1
10°-20°	1064.1	5.4
20°-30°	1378.4	7.1
30°-40°	1349.8	6.9
40°-50°	1033.1	5.3
50°-60°	688.4	3.5
60°-70°	375.7	1.9
70°-80°	156.5	0.8
80°-90°	49.1	0.3
90°-100°	944.3	4.8
100°-110°	2543.8	13.0
110°-120°	2669.6	13.7
120°-130°	2166.3	11.1
130°-140°	1699.0	8.7
140°-150°	1304.4	6.7
150°-160°	937.9	4.8
160°-170°	573.0	2.9
170°-180°	193.2	1.0
0°-30°	2851.6	14.6
0°-40°	4201.4	21.5
0°-60°	5923.0	30.3
0°-90°	6504.2	33.3
90°-120°	6157.8	31.5
90°-150°	11327.5	58.0
90°-180°	13032.0	66.7
0°-180°	19535.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4460	4460	4460	4460	4460	
5°	4388	4344	4372	4382	4398	408
15°	3711	3697	3797	3900	3967	1036
25°	2836	2844	2990	3121	3259	1304
35°	2004	2014	2149	2294	2456	1246
45°	1202	1225	1305	1404	1532	937
55°	691	720	761	790	855	626
65°	346	375	409	357	325	360
75°	174	174	158	109	74	186
85°	49	49	45	29	18	53
90°	5	15	31	33	33	12
95°	144	514	1548	792	548	150
105°	471	732	2813	4209	3950	495
115°	831	1017	2343	4526	5120	817
125°	1134	1302	2104	3555	4184	1013
135°	1366	1524	2044	2868	3248	1054
145°	1579	1702	2019	2452	2633	990
155°	1792	1858	2001	2200	2271	825
165°	1944	1967	2008	2088	2098	548
175°	2021	2019	2011	2039	2034	192
180°	2019	2019	2019	2019	2019	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4460.3	4460.3	4460.3	4460.3	4460.3
2.5°	4471.3	4431.5	4441.5	4441.3	4429.0
5°	4387.9	4343.9	4372.3	4382.4	4397.7
7.5°	4225.1	4191.8	4243.5	4281.8	4312.8
10°	4098.3	4069.6	4135.4	4191.2	4231.3
12.5°	3951.1	3927.0	4008.6	4083.4	4135.8
15°	3710.7	3697.3	3796.9	3900.1	3967.1
17.5°	3453.6	3447.1	3561.2	3681.8	3767.5
20°	3278.2	3276.3	3401.5	3527.1	3626.6
22.5°	3101.3	3105.5	3237.1	3367.7	3481.0
25°	2835.9	2843.6	2990.5	3120.9	3258.6
27.5°	2590.5	2593.9	2745.9	2883.5	3030.4
30°	2422.9	2432.5	2581.5	2723.9	2877.0
32.5°	2255.4	2266.5	2412.4	2559.6	2715.7
35°	2004.1	2013.7	2148.9	2293.6	2456.2
37.5°	1745.0	1758.0	1878.1	2014.8	2174.8
40°	1577.5	1596.6	1702.7	1831.5	1988.5
42.5°	1416.2	1439.9	1538.3	1660.5	1802.1
45°	1201.7	1224.6	1305.4	1404.2	1532.4
47.5°	1016.9	1043.3	1105.4	1190.5	1299.9
50°	912.0	936.9	994.2	1057.2	1160.6
52.5°	819.7	844.5	895.6	944.2	1032.2
55°	690.9	719.6	761.3	790.2	855.3
57.5°	585.2	612.7	645.9	658.9	698.3
60°	514.7	545.3	575.4	573.9	595.0
62.5°	450.5	476.6	506.5	485.8	486.9
65°	346.4	375.1	409.0	357.4	324.9
67.5°	279.9	286.0	321.0	249.2	210.6
70°	248.6	248.6	258.3	193.0	160.5
72.5°	218.8	218.8	209.8	157.0	122.9
75°	174.2	174.2	158.5	108.8	74.4
77.5°	134.3	132.7	121.3	81.2	54.0
80°	107.6	107.6	97.9	64.1	43.1
82.5°	84.2	84.2	75.9	50.1	32.1
85°	48.9	48.9	45.0	29.1	17.6
87.5°	18.3	20.3	21.8	16.0	14.5
90°	5.1	15.2	30.9	33.4	33.4
92.5°	62.7	221.7	438.2	210.9	146.6
95°	144.0	513.6	1548.1	791.6	547.7
97.5°	229.9	587.9	2428.0	2028.4	1529.6
100°	295.7	617.6	2707.8	2833.2	2350.4
102.5°	359.5	659.2	2800.4	3435.8	3039.6
105°	470.6	732.1	2813.3	4208.9	3949.9
107.5°	575.5	808.8	2693.4	4606.1	4673.0
110°	645.5	866.7	2584.4	4729.5	4973.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.5	924.7	2479.5	4702.2	5103.0
115°	830.6	1016.7	2342.7	4526.5	5119.9
117.5°	931.9	1106.4	2236.7	4246.2	4907.0
120°	997.8	1166.2	2183.2	4045.0	4723.9
122.5°	1055.4	1221.8	2144.2	3839.3	4516.1
125°	1134.0	1302.5	2103.5	3555.3	4183.9
127.5°	1209.7	1375.6	2077.8	3304.8	3866.1
130°	1254.9	1420.9	2067.5	3161.3	3654.2
132.5°	1300.2	1464.1	2057.2	3034.9	3487.5
135°	1365.5	1523.9	2044.4	2868.2	3247.9
137.5°	1427.7	1579.6	2037.7	2726.7	3038.5
140°	1470.9	1616.8	2031.5	2639.7	2921.3
142.5°	1516.2	1652.0	2027.4	2558.4	2795.8
145°	1578.9	1702.1	2018.7	2452.2	2633.3
147.5°	1646.8	1753.9	2009.9	2362.9	2505.2
150°	1692.1	1785.1	2005.8	2306.8	2425.0
152.5°	1733.2	1814.2	2003.7	2261.0	2357.1
155°	1792.4	1857.7	2000.7	2200.3	2270.7
157.5°	1844.3	1895.1	2001.2	2157.6	2204.8
160°	1877.2	1920.0	2003.2	2132.6	2167.8
162.5°	1906.0	1940.7	2005.3	2111.8	2137.0
165°	1944.1	1966.7	2008.4	2088.3	2098.4
167.5°	1974.9	1988.0	2010.9	2070.2	2074.2
170°	1995.5	2000.5	2010.9	2059.8	2059.8
172.5°	2007.9	2008.9	2013.0	2049.5	2049.5
175°	2021.2	2018.7	2010.9	2039.1	2034.1
177.5°	2026.9	2022.9	2012.5	2028.9	2024.8
180°	2018.7	2018.7	2018.7	2018.7	2018.7

(END OF REPORT)