

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: P519494

Luminaire Tested: **SQ4-WB-125U-075D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519494
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-8
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

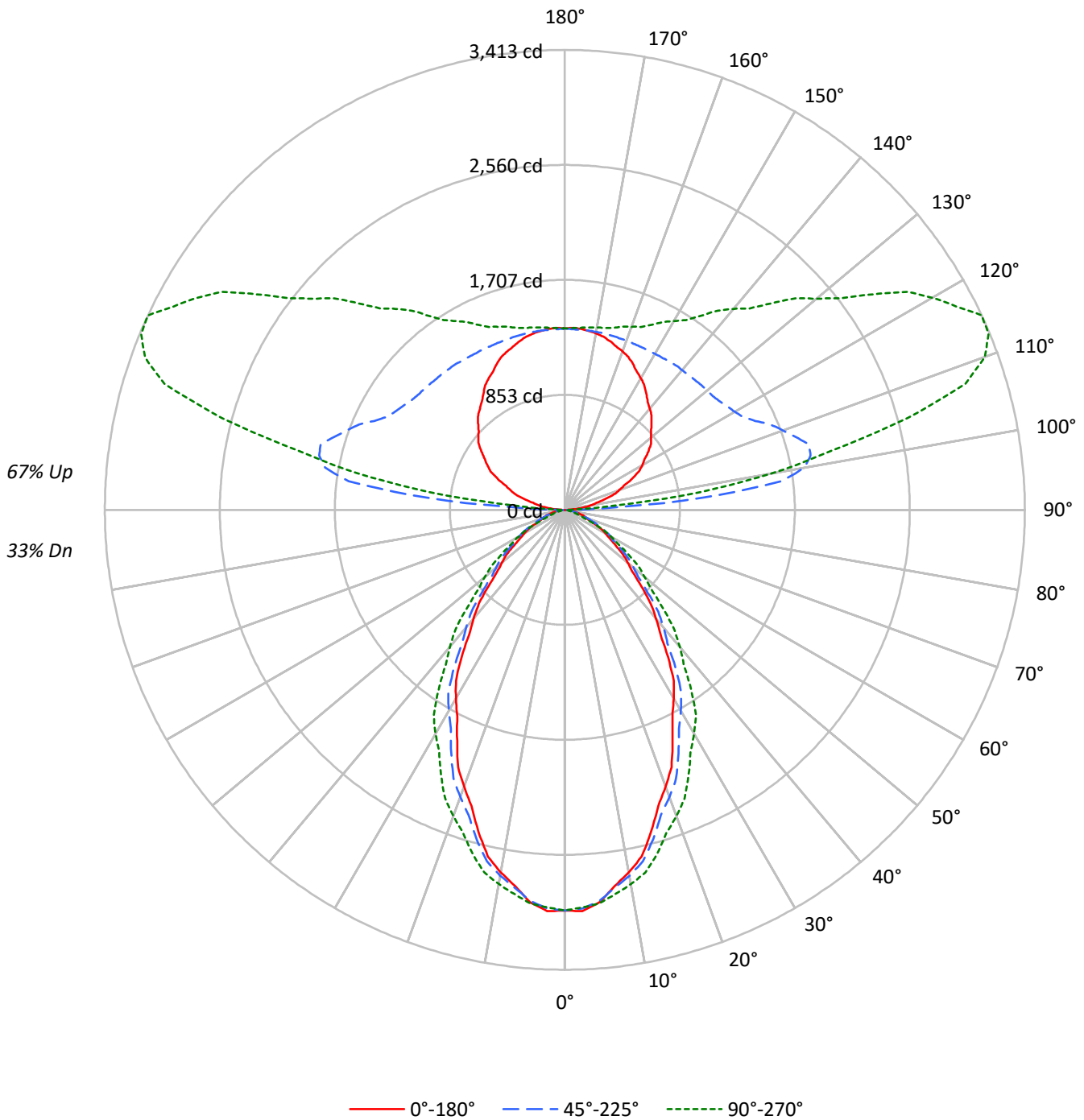
Lumens per Lamp: N/A
Luminaire Lumens: 13023.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
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°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13214
15°	11814	12089	12631
20°	10729	11133	11869
25°	9623	10148	11058
30°	8604	9167	10217
35°	7524	8068	9222
40°	6333	6836	7983
45°	5226	5678	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2520	2977	2364
70°	2235	2323	1443
75°	2069	1884	884
80°	1907	1732	762
85°	1725	1588	619



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	2.1
10°-20°	709.4	5.4
20°-30°	918.9	7.1
30°-40°	899.8	6.9
40°-50°	688.8	5.3
50°-60°	459.0	3.5
60°-70°	250.5	1.9
70°-80°	104.4	0.8
80°-90°	32.7	0.3
90°-100°	629.6	4.8
100°-110°	1695.9	13.0
110°-120°	1779.8	13.7
120°-130°	1444.2	11.1
130°-140°	1132.7	8.7
140°-150°	869.6	6.7
150°-160°	625.2	4.8
160°-170°	382.0	2.9
170°-180°	128.8	1.0
0°-30°	1901.1	14.6
0°-40°	2800.9	21.5
0°-60°	3948.6	30.3
0°-90°	4336.2	33.3
90°-120°	4105.2	31.5
90°-150°	7551.7	58.0
90°-180°	8688.0	66.7
0°-180°	13023.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2974	2974	2974	2974	2974	
5°	2925	2896	2915	2922	2932	272
15°	2474	2465	2531	2600	2645	691
25°	1891	1896	1994	2081	2172	869
35°	1336	1342	1433	1529	1638	831
45°	801	816	870	936	1022	625
55°	461	480	508	527	570	418
65°	231	250	273	238	217	240
75°	116	116	106	72	50	124
85°	33	33	30	19	12	36
90°	3	10	21	22	22	8
95°	96	342	1032	528	365	100
105°	314	488	1876	2806	2633	330
115°	554	678	1562	3018	3413	545
125°	756	868	1402	2370	2789	675
135°	910	1016	1363	1912	2165	703
145°	1053	1135	1346	1635	1756	660
155°	1195	1238	1334	1467	1514	550
165°	1296	1311	1339	1392	1399	365
175°	1348	1346	1341	1359	1356	128
180°	1346	1346	1346	1346	1346	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2973.6	2973.6	2973.6	2973.6	2973.6
2.5°	2980.9	2954.3	2961.0	2960.8	2952.7
5°	2925.3	2895.9	2914.8	2921.6	2931.8
7.5°	2816.7	2794.5	2829.0	2854.5	2875.2
10°	2732.2	2713.0	2757.0	2794.1	2820.9
12.5°	2634.1	2618.0	2672.4	2722.3	2757.2
15°	2473.8	2464.9	2531.2	2600.1	2644.8
17.5°	2302.4	2298.0	2374.1	2454.5	2511.7
20°	2185.5	2184.2	2267.7	2351.4	2417.7
22.5°	2067.5	2070.3	2158.1	2245.1	2320.6
25°	1890.6	1895.7	1993.7	2080.6	2172.4
27.5°	1727.0	1729.3	1830.6	1922.3	2020.3
30°	1615.3	1621.7	1721.0	1815.9	1918.0
32.5°	1503.6	1511.0	1608.2	1706.4	1810.5
35°	1336.1	1342.5	1432.6	1529.0	1637.5
37.5°	1163.3	1172.0	1252.0	1343.2	1449.9
40°	1051.6	1064.4	1135.1	1221.0	1325.6
42.5°	944.1	959.9	1025.5	1107.0	1201.4
45°	801.1	816.4	870.3	936.2	1021.6
47.5°	678.0	695.6	736.9	793.6	866.6
50°	608.0	624.6	662.8	704.8	773.7
52.5°	546.4	563.0	597.1	629.4	688.1
55°	460.6	479.7	507.6	526.8	570.2
57.5°	390.1	408.5	430.6	439.3	465.5
60°	343.2	363.6	383.6	382.6	396.6
62.5°	300.4	317.7	337.7	323.9	324.6
65°	230.9	250.1	272.7	238.3	216.6
67.5°	186.6	190.7	214.0	166.2	140.4
70°	165.7	165.7	172.2	128.7	107.0
72.5°	145.9	145.9	139.9	104.6	81.9
75°	116.1	116.1	105.7	72.5	49.6
77.5°	89.5	88.5	80.9	54.1	36.0
80°	71.8	71.8	65.2	42.7	28.7
82.5°	56.1	56.1	50.6	33.4	21.4
85°	32.6	32.6	30.0	19.4	11.7
87.5°	12.2	13.5	14.6	10.7	9.7
90°	3.4	10.1	20.6	22.3	22.3
92.5°	41.8	147.8	292.1	140.6	97.7
95°	96.0	342.4	1032.0	527.8	365.2
97.5°	153.3	392.0	1618.7	1352.3	1019.7
100°	197.2	411.7	1805.2	1888.8	1566.9
102.5°	239.7	439.5	1866.9	2290.6	2026.4
105°	313.7	488.1	1875.5	2805.9	2633.3
107.5°	383.7	539.2	1795.6	3070.7	3115.3
110°	430.3	577.8	1722.9	3153.0	3315.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	479.7	616.5	1653.0	3134.8	3402.0
115°	553.7	677.8	1561.8	3017.7	3413.3
117.5°	621.3	737.6	1491.2	2830.8	3271.3
120°	665.2	777.5	1455.5	2696.7	3149.3
122.5°	703.6	814.5	1429.4	2559.5	3010.8
125°	756.0	868.3	1402.3	2370.2	2789.3
127.5°	806.4	917.1	1385.2	2203.2	2577.4
130°	836.6	947.2	1378.3	2107.6	2436.1
132.5°	866.8	976.1	1371.5	2023.3	2325.0
135°	910.3	1015.9	1362.9	1912.1	2165.2
137.5°	951.8	1053.1	1358.5	1817.8	2025.7
140°	980.6	1077.8	1354.3	1759.8	1947.5
142.5°	1010.8	1101.3	1351.6	1705.6	1863.9
145°	1052.6	1134.8	1345.8	1634.8	1755.5
147.5°	1097.9	1169.3	1339.9	1575.3	1670.1
150°	1128.0	1190.1	1337.2	1537.9	1616.6
152.5°	1155.5	1209.5	1335.8	1507.3	1571.4
155°	1194.9	1238.5	1333.8	1466.8	1513.8
157.5°	1229.5	1263.4	1334.1	1438.4	1469.9
160°	1251.5	1280.0	1335.5	1421.7	1445.2
162.5°	1270.7	1293.8	1336.9	1407.9	1424.6
165°	1296.1	1311.1	1338.9	1392.2	1398.9
167.5°	1316.6	1325.3	1340.6	1380.1	1382.8
170°	1330.3	1333.7	1340.6	1373.2	1373.2
172.5°	1338.6	1339.2	1342.0	1366.3	1366.3
175°	1347.5	1345.8	1340.6	1359.4	1356.1
177.5°	1351.3	1348.6	1341.7	1352.6	1349.9
180°	1345.8	1345.8	1345.8	1345.8	1345.8

(END OF REPORT)