

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: P519542

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519542
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-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

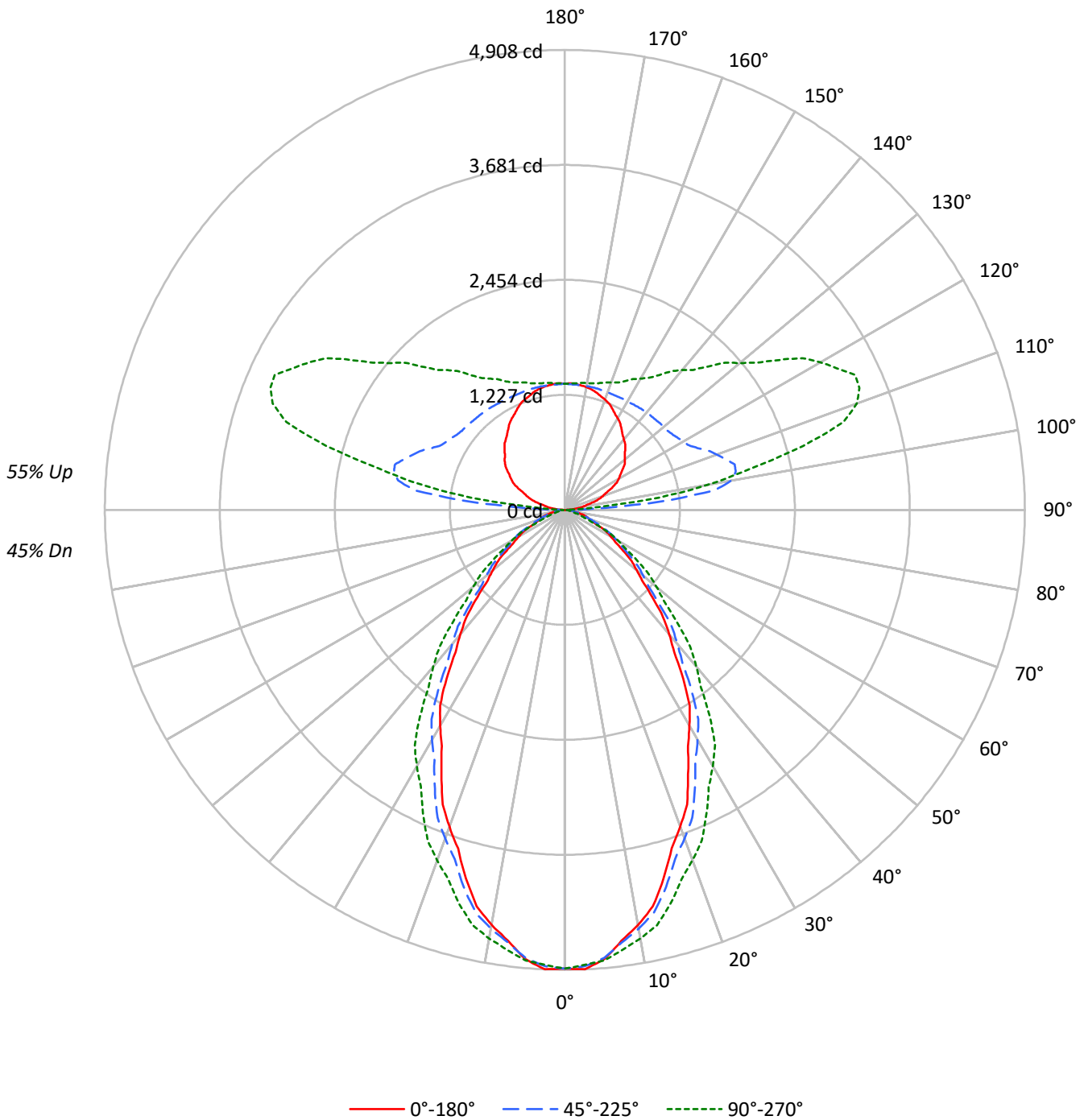
Lumens per Lamp: N/A
Luminaire Lumens: 15824.4 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	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°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20794
20°	17663	18327	19540
25°	15843	16706	18204
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8604	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5826	6025
65°	4150	4900	3892
70°	3679	3824	2375
75°	3408	3101	1454
80°	3137	2853	1257
85°	2842	2615	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	2.8
10°-20°	1167.9	7.4
20°-30°	1512.8	9.6
30°-40°	1481.4	9.4
40°-50°	1133.9	7.2
50°-60°	755.6	4.8
60°-70°	412.3	2.6
70°-80°	171.8	1.1
80°-90°	51.8	0.3
90°-100°	629.6	4.0
100°-110°	1695.9	10.7
110°-120°	1779.8	11.2
120°-130°	1444.2	9.1
130°-140°	1132.7	7.2
140°-150°	869.6	5.5
150°-160°	625.2	4.0
160°-170°	382.0	2.4
170°-180°	128.8	0.8
0°-30°	3129.8	19.8
0°-40°	4611.2	29.1
0°-60°	6500.7	41.1
0°-90°	7136.7	45.1
90°-120°	4105.2	25.9
90°-150°	7551.7	47.7
90°-180°	8688.0	54.9
0°-180°	15824.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4895	4895	4895	4895	4895	
5°	4816	4768	4799	4810	4827	448
15°	4073	4058	4167	4281	4354	1137
25°	3112	3121	3282	3425	3576	1431
35°	2200	2210	2359	2517	2696	1367
45°	1319	1344	1433	1541	1682	1029
55°	758	790	836	867	939	688
65°	380	412	449	392	357	395
75°	191	191	174	119	82	204
85°	54	54	49	32	19	58
90°	3	10	21	22	22	9
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°	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	4907.5	4863.8	4874.8	4874.5	4861.1
5°	4815.9	4767.6	4798.8	4809.9	4826.7
7.5°	4637.2	4600.7	4657.4	4699.4	4733.5
10°	4498.0	4466.5	4538.8	4600.0	4644.1
12.5°	4336.5	4310.0	4399.7	4481.7	4539.3
15°	4072.7	4058.0	4167.2	4280.6	4354.1
17.5°	3790.5	3783.3	3908.6	4040.9	4135.0
20°	3598.0	3595.9	3733.3	3871.1	3980.4
22.5°	3403.8	3408.4	3552.9	3696.2	3820.5
25°	3112.5	3120.9	3282.2	3425.3	3576.5
27.5°	2843.2	2846.9	3013.7	3164.7	3326.1
30°	2659.3	2669.8	2833.3	2989.6	3157.6
32.5°	2475.4	2487.6	2647.7	2809.3	2980.6
35°	2199.6	2210.1	2358.6	2517.3	2695.8
37.5°	1915.2	1929.5	2061.3	2211.3	2386.9
40°	1731.3	1752.3	1868.8	2010.2	2182.4
42.5°	1554.3	1580.4	1688.4	1822.5	1977.9
45°	1318.9	1344.1	1432.8	1541.2	1681.9
47.5°	1116.1	1145.1	1213.2	1306.6	1426.7
50°	1001.0	1028.3	1091.2	1160.4	1273.8
52.5°	899.6	926.9	983.0	1036.3	1132.9
55°	758.3	789.8	835.6	867.3	938.7
57.5°	642.3	672.5	708.9	723.2	766.4
60°	564.9	598.5	631.5	629.9	653.0
62.5°	494.5	523.0	555.9	533.2	534.4
65°	380.2	411.7	448.9	392.3	356.6
67.5°	307.2	313.9	352.3	273.6	231.1
70°	272.8	272.8	283.5	211.8	176.1
72.5°	240.2	240.2	230.3	172.3	134.9
75°	191.2	191.2	174.0	119.4	81.6
77.5°	147.4	145.7	133.2	89.1	59.3
80°	118.1	118.1	107.4	70.4	47.3
82.5°	92.4	92.4	83.3	55.0	35.2
85°	53.7	53.7	49.4	31.9	19.3
87.5°	19.6	20.9	21.3	14.7	13.0
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)