

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: P519530

Luminaire Tested: **SQ4-WB-125U-125D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519530
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-835-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

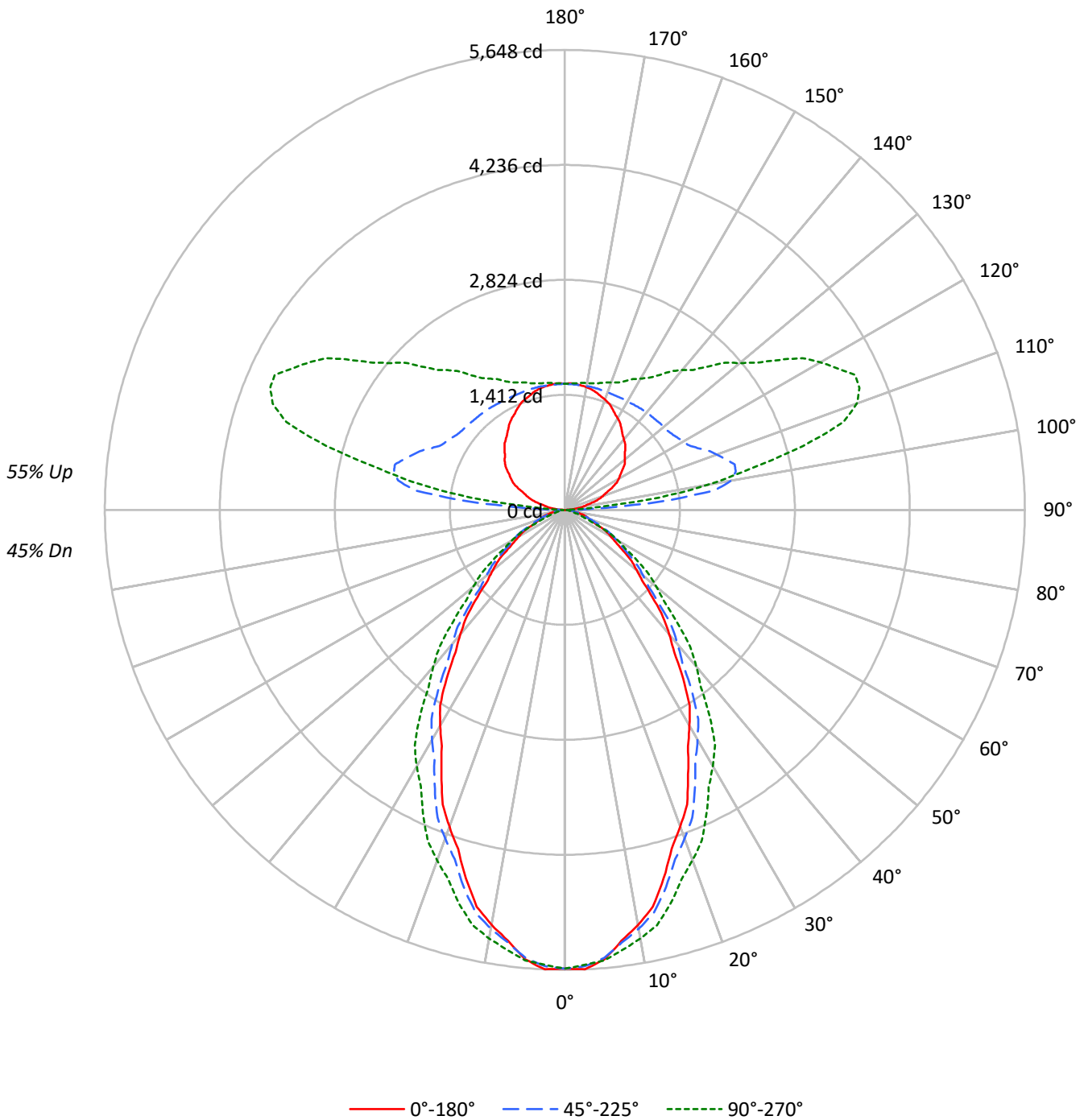
Lumens per Lamp: N/A
Luminaire Lumens: 18212.2 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25036
15°	22385	22905	23932
20°	20328	21093	22488
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15125
45°	9903	10757	12628
50°	8268	9013	10521
55°	7019	7735	8689
60°	5999	6706	6933
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3568	1674
80°	3613	3284	1445
85°	3271	3012	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	2.8
10°-20°	1344.2	7.4
20°-30°	1741.1	9.6
30°-40°	1704.9	9.4
40°-50°	1305.0	7.2
50°-60°	869.6	4.8
60°-70°	474.5	2.6
70°-80°	197.7	1.1
80°-90°	59.6	0.3
90°-100°	724.6	4.0
100°-110°	1951.8	10.7
110°-120°	2048.3	11.2
120°-130°	1662.1	9.1
130°-140°	1303.6	7.2
140°-150°	1000.8	5.5
150°-160°	719.6	4.0
160°-170°	439.6	2.4
170°-180°	148.3	0.8
0°-30°	3602.0	19.8
0°-40°	5307.0	29.1
0°-60°	7481.6	41.1
0°-90°	8213.6	45.1
90°-120°	4724.6	25.9
90°-150°	8691.2	47.7
90°-180°	9999.0	54.9
0°-180°	18212.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5634	5634	5634	5634	5634	
5°	5543	5487	5523	5536	5555	516
15°	4687	4670	4796	4926	5011	1309
25°	3582	3592	3778	3942	4116	1647
35°	2532	2544	2714	2897	3103	1574
45°	1518	1547	1649	1774	1936	1184
55°	873	909	962	998	1080	791
65°	438	474	517	452	410	455
75°	220	220	200	138	94	235
85°	62	62	57	37	22	67
90°	4	12	24	26	26	11
95°	110	394	1188	607	420	115
105°	361	562	2158	3229	3031	380
115°	637	780	1797	3473	3928	627
125°	870	999	1614	2728	3210	777
135°	1048	1169	1569	2201	2492	809
145°	1211	1306	1549	1882	2020	760
155°	1375	1425	1535	1688	1742	633
165°	1492	1509	1541	1602	1610	421
175°	1551	1549	1543	1564	1561	147
180°	1549	1549	1549	1549	1549	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5634.1	5634.1	5634.1	5634.1	5634.1
2.5°	5647.9	5597.7	5610.4	5610.0	5594.5
5°	5542.6	5487.0	5522.8	5535.6	5555.0
7.5°	5336.9	5294.9	5360.2	5408.5	5447.7
10°	5176.7	5140.5	5223.7	5294.1	5344.8
12.5°	4990.8	4960.4	5063.5	5158.0	5224.2
15°	4687.2	4670.3	4796.0	4926.5	5011.1
17.5°	4362.4	4354.2	4498.4	4650.6	4758.9
20°	4140.9	4138.5	4296.6	4455.2	4580.9
22.5°	3917.4	3922.7	4089.0	4253.9	4397.0
25°	3582.2	3591.9	3777.5	3942.1	4116.2
27.5°	3272.2	3276.5	3468.5	3642.3	3827.9
30°	3060.6	3072.6	3260.8	3440.7	3634.1
32.5°	2848.9	2863.0	3047.2	3233.1	3430.4
35°	2531.5	2543.6	2714.5	2897.1	3102.6
37.5°	2204.2	2220.6	2372.3	2545.0	2747.1
40°	1992.6	2016.7	2150.8	2313.5	2511.7
42.5°	1788.9	1818.8	1943.1	2097.5	2276.4
45°	1517.9	1546.9	1648.9	1773.8	1935.7
47.5°	1284.5	1317.9	1396.3	1503.8	1642.0
50°	1152.0	1183.5	1255.9	1335.5	1466.0
52.5°	1035.3	1066.8	1131.3	1192.6	1303.8
55°	872.7	908.9	961.7	998.2	1080.3
57.5°	739.2	774.0	815.8	832.3	882.1
60°	650.2	688.9	726.8	725.0	751.5
62.5°	569.1	602.0	639.8	613.6	615.1
65°	437.6	473.8	516.7	451.5	410.4
67.5°	353.5	361.3	405.4	314.8	266.0
70°	314.0	314.0	326.3	243.8	202.7
72.5°	276.4	276.4	265.0	198.3	155.3
75°	220.0	220.0	200.2	137.5	93.9
77.5°	169.6	167.7	153.3	102.6	68.2
80°	136.0	136.0	123.6	81.0	54.4
82.5°	106.3	106.3	95.9	63.3	40.5
85°	61.8	61.8	56.9	36.8	22.2
87.5°	22.5	24.1	24.5	17.0	15.0
90°	3.9	11.7	23.7	25.6	25.6
92.5°	48.1	170.1	336.2	161.9	112.5
95°	110.5	394.1	1187.8	607.4	420.3
97.5°	176.4	451.1	1862.9	1556.3	1173.6
100°	226.9	473.8	2077.6	2173.8	1803.4
102.5°	275.8	505.8	2148.6	2636.2	2332.1
105°	361.1	561.7	2158.5	3229.3	3030.6
107.5°	441.6	620.6	2066.6	3534.1	3585.4
110°	495.2	665.0	1982.9	3628.7	3815.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	552.1	709.5	1902.4	3607.8	3915.3
115°	637.3	780.1	1797.4	3473.0	3928.3
117.5°	715.0	848.9	1716.2	3258.0	3765.0
120°	765.5	894.8	1675.1	3103.6	3624.5
122.5°	809.7	937.4	1645.1	2945.7	3465.1
125°	870.1	999.4	1613.9	2727.8	3210.1
127.5°	928.1	1055.4	1594.2	2535.7	2966.3
130°	962.8	1090.2	1586.3	2425.6	2803.7
132.5°	997.6	1123.4	1578.4	2328.6	2675.8
135°	1047.7	1169.2	1568.6	2200.6	2491.9
137.5°	1095.4	1212.0	1563.4	2092.1	2331.3
140°	1128.6	1240.5	1558.7	2025.3	2241.4
142.5°	1163.3	1267.5	1555.5	1963.0	2145.1
145°	1211.4	1306.0	1548.8	1881.5	2020.4
147.5°	1263.5	1345.7	1542.1	1812.9	1922.1
150°	1298.3	1369.6	1539.0	1769.9	1860.6
152.5°	1329.8	1391.9	1537.4	1734.8	1808.5
155°	1375.2	1425.4	1535.0	1688.2	1742.2
157.5°	1415.1	1454.0	1535.4	1655.4	1691.7
160°	1440.3	1473.1	1537.0	1636.3	1663.3
162.5°	1462.4	1489.0	1538.6	1620.3	1639.6
165°	1491.6	1509.0	1540.9	1602.3	1610.0
167.5°	1515.3	1525.3	1542.9	1588.4	1591.5
170°	1531.1	1534.9	1542.9	1580.4	1580.4
172.5°	1540.5	1541.3	1544.5	1572.5	1572.5
175°	1550.8	1548.9	1542.9	1564.5	1560.7
177.5°	1555.2	1552.1	1544.1	1556.7	1553.6
180°	1548.8	1548.8	1548.8	1548.8	1548.8

(END OF REPORT)