

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: P519514

Luminaire Tested: **SQ4-WB-125U-100D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519514
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-100D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

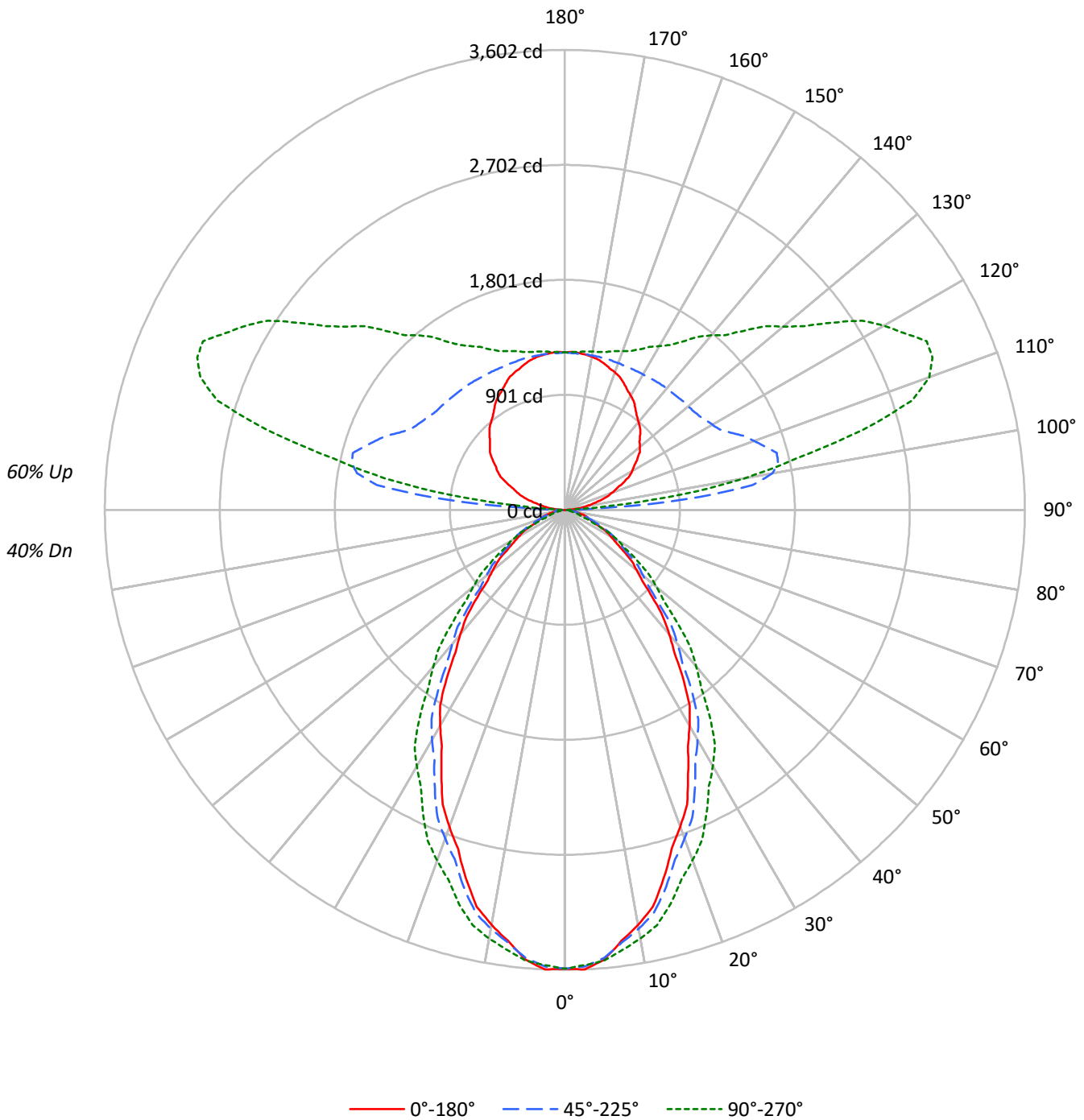
Lumens per Lamp: N/A
Luminaire Lumens: 13196.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 133.3
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16578	16578	16578
5°	16371	16313	16408
10°	15467	15608	15970
15°	14279	14610	15265
20°	12967	13454	14345
25°	11630	12264	13364
30°	10399	11079	12347
35°	9093	9750	11145
40°	7654	8262	9648
45°	6316	6862	8055
50°	5273	5749	6711
55°	4477	4933	5542
60°	3826	4277	4423
65°	3047	3598	2858
70°	2702	2807	1744
75°	2501	2276	1068
80°	2303	2093	922
85°	2085	1921	752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	2.5
10°-20°	857.4	6.5
20°-30°	1110.6	8.4
30°-40°	1087.5	8.2
40°-50°	832.4	6.3
50°-60°	554.7	4.2
60°-70°	302.7	2.3
70°-80°	126.1	1.0
80°-90°	38.6	0.3
90°-100°	576.6	4.4
100°-110°	1553.1	11.8
110°-120°	1629.9	12.4
120°-130°	1322.7	10.0
130°-140°	1037.3	7.9
140°-150°	796.4	6.0
150°-160°	572.6	4.3
160°-170°	349.8	2.7
170°-180°	118.0	0.9
0°-30°	2297.6	17.4
0°-40°	3385.1	25.7
0°-60°	4772.2	36.2
0°-90°	5239.6	39.7
90°-120°	3759.6	28.5
90°-150°	6916.0	52.4
90°-180°	7956.0	60.3
0°-180°	13196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3594	3594	3594	3594	3594	
5°	3535	3500	3523	3531	3543	329
15°	2990	2979	3059	3142	3196	835
25°	2285	2291	2410	2514	2626	1051
35°	1615	1622	1731	1848	1979	1004
45°	968	987	1052	1131	1235	755
55°	557	580	613	637	689	505
65°	279	302	330	288	262	290
75°	140	140	128	88	60	150
85°	39	39	36	23	14	43
90°	3	9	19	20	20	8
95°	88	314	945	483	334	92
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3593.7	3593.7	3593.7	3593.7	3593.7
2.5°	3602.5	3570.5	3578.6	3578.3	3568.5
5°	3535.4	3499.9	3522.7	3530.9	3543.2
7.5°	3404.2	3377.3	3419.0	3449.8	3474.8
10°	3302.0	3278.9	3331.9	3376.8	3409.2
12.5°	3183.4	3164.0	3229.8	3290.0	3332.3
15°	2989.8	2979.0	3059.1	3142.4	3196.3
17.5°	2782.6	2777.3	2869.3	2966.4	3035.5
20°	2641.3	2639.7	2740.6	2841.8	2922.0
22.5°	2498.7	2502.1	2608.2	2713.4	2804.6
25°	2284.9	2291.1	2409.5	2514.5	2625.5
27.5°	2087.2	2089.9	2212.4	2323.2	2441.6
30°	1952.2	1959.9	2079.9	2194.7	2318.0
32.5°	1817.2	1826.1	1943.7	2062.3	2188.1
35°	1614.7	1622.4	1731.4	1847.9	1979.0
37.5°	1405.9	1416.4	1513.2	1623.3	1752.2
40°	1271.0	1286.4	1371.9	1475.7	1602.1
42.5°	1141.0	1160.1	1239.4	1337.9	1452.0
45°	968.2	986.7	1051.8	1131.4	1234.7
47.5°	819.3	840.6	890.6	959.2	1047.4
50°	734.8	754.9	801.1	851.8	935.1
52.5°	660.4	680.4	721.6	760.7	831.6
55°	556.6	579.8	613.4	636.7	689.1
57.5°	471.5	493.7	520.4	530.9	562.6
60°	414.7	439.4	463.6	462.4	479.4
62.5°	363.0	384.0	408.1	391.4	392.3
65°	279.1	302.2	329.6	288.0	261.8
67.5°	225.5	230.4	258.6	200.8	169.7
70°	200.3	200.3	208.1	155.5	129.3
72.5°	176.3	176.3	169.0	126.5	99.0
75°	140.3	140.3	127.7	87.7	59.9
77.5°	108.2	106.9	97.8	65.4	43.5
80°	86.7	86.7	78.8	51.7	34.7
82.5°	67.8	67.8	61.2	40.4	25.9
85°	39.4	39.4	36.3	23.4	14.2
87.5°	14.5	15.7	16.4	11.6	10.4
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)