

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: P519522

Luminaire Tested: **SQ4-WB-125U-100D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519522
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

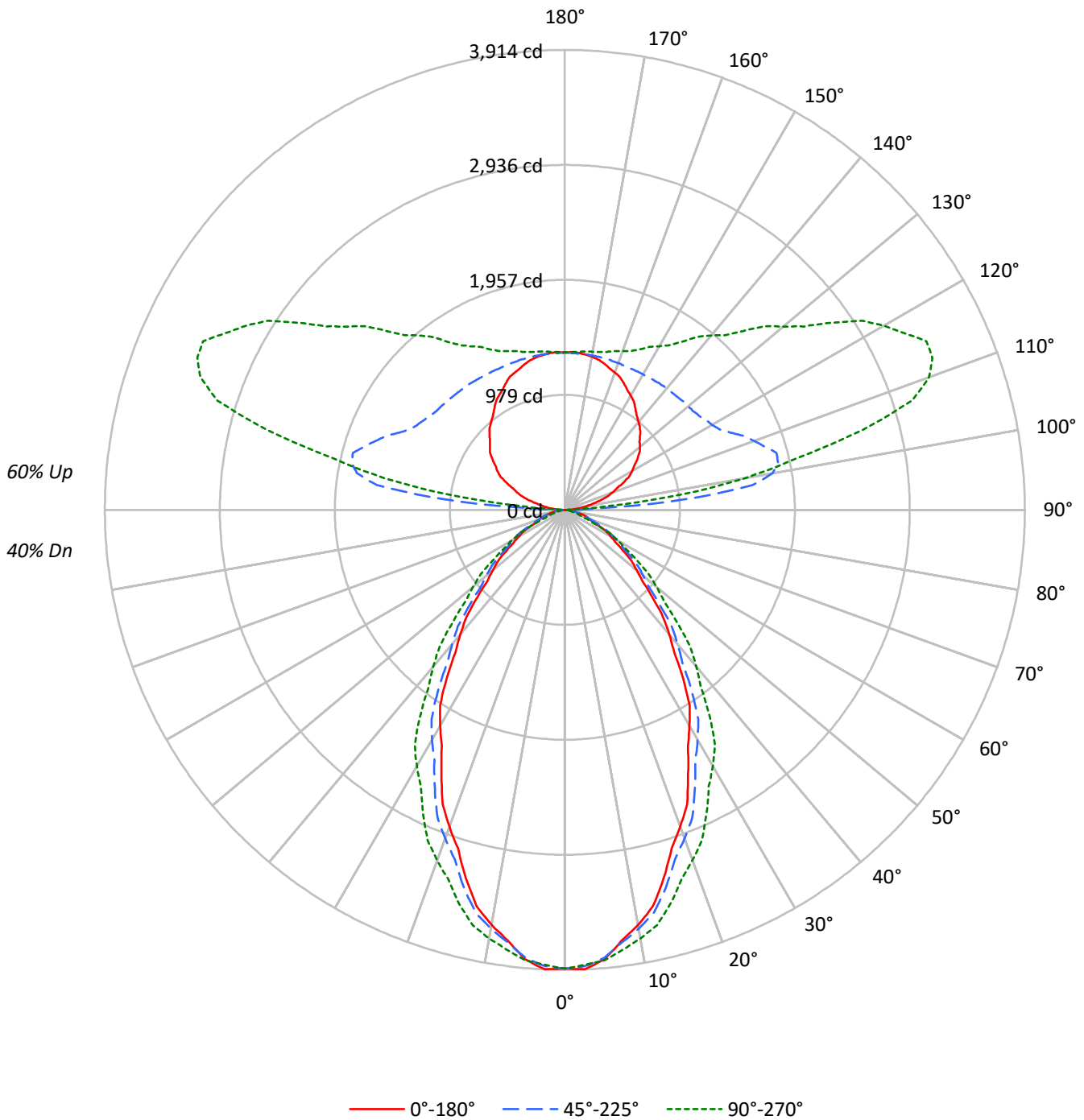
Lumens per Lamp: N/A
Luminaire Lumens: 14335.7 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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°	18010	18010	18010
5°	17785	17722	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12634	13324	14518
30°	11297	12036	13414
35°	9879	10592	12107
40°	8315	8975	10481
45°	6862	7454	8751
50°	5729	6245	7290
55°	4863	5360	6021
60°	4156	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2718	2474	1160
80°	2502	2277	1002
85°	2265	2085	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.1	2.5
10°-20°	931.4	6.5
20°-30°	1206.5	8.4
30°-40°	1181.4	8.2
40°-50°	904.3	6.3
50°-60°	602.6	4.2
60°-70°	328.8	2.3
70°-80°	137.0	1.0
80°-90°	41.9	0.3
90°-100°	626.4	4.4
100°-110°	1687.3	11.8
110°-120°	1770.7	12.4
120°-130°	1436.9	10.0
130°-140°	1126.9	7.9
140°-150°	865.2	6.0
150°-160°	622.1	4.3
160°-170°	380.0	2.7
170°-180°	128.2	0.9
0°-30°	2496.0	17.4
0°-40°	3677.4	25.7
0°-60°	5184.3	36.2
0°-90°	5692.1	39.7
90°-120°	4084.4	28.5
90°-150°	7513.4	52.4
90°-180°	8644.0	60.3
0°-180°	14335.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3904	3904	3904	3904	3904	
5°	3841	3802	3827	3836	3849	357
15°	3248	3236	3323	3414	3472	907
25°	2482	2489	2618	2732	2852	1142
35°	1754	1763	1881	2008	2150	1091
45°	1052	1072	1143	1229	1341	820
55°	605	630	666	692	749	548
65°	303	328	358	313	284	315
75°	152	152	139	95	65	163
85°	43	43	39	26	15	47
90°	3	10	20	22	22	9
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	

TEST NUMBER: P519522

CATALOG NUMBER: SQ4-WB-125U-100D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3904.1	3904.1	3904.1	3904.1	3904.1
2.5°	3913.7	3878.8	3887.6	3887.4	3876.7
5°	3840.7	3802.2	3827.0	3835.9	3849.3
7.5°	3698.2	3669.0	3714.3	3747.8	3774.9
10°	3587.2	3562.0	3619.7	3668.5	3703.6
12.5°	3458.3	3437.2	3508.7	3574.2	3620.1
15°	3248.0	3236.2	3323.3	3413.8	3472.4
17.5°	3022.9	3017.2	3117.1	3222.6	3297.7
20°	2869.4	2867.7	2977.3	3087.2	3174.3
22.5°	2714.5	2718.2	2833.4	2947.7	3046.9
25°	2482.2	2488.9	2617.6	2731.7	2852.3
27.5°	2267.4	2270.4	2403.4	2523.9	2652.5
30°	2120.8	2129.2	2259.5	2384.2	2518.2
32.5°	1974.1	1983.9	2111.5	2240.4	2377.1
35°	1754.2	1762.6	1880.9	2007.5	2149.9
37.5°	1527.4	1538.8	1643.9	1763.5	1903.6
40°	1380.7	1397.5	1490.4	1603.1	1740.5
42.5°	1239.6	1260.3	1346.5	1453.4	1577.4
45°	1051.8	1071.9	1142.6	1229.1	1341.3
47.5°	890.1	913.2	967.5	1042.0	1137.8
50°	798.3	820.1	870.2	925.4	1015.8
52.5°	717.4	739.2	783.9	826.4	903.5
55°	604.7	629.8	666.4	691.7	748.6
57.5°	512.2	536.3	565.3	576.7	611.2
60°	450.5	477.3	503.6	502.3	520.8
62.5°	394.3	417.1	443.3	425.2	426.2
65°	303.2	328.3	358.0	312.8	284.4
67.5°	245.0	250.3	280.9	218.2	184.3
70°	217.6	217.6	226.1	168.9	140.5
72.5°	191.5	191.5	183.6	137.4	107.6
75°	152.5	152.5	138.8	95.2	65.1
77.5°	117.5	116.2	106.2	71.1	47.3
80°	94.2	94.2	85.7	56.1	37.7
82.5°	73.7	73.7	66.5	43.8	28.1
85°	42.8	42.8	39.4	25.5	15.4
87.5°	15.8	17.1	17.8	12.6	11.3
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7



TEST NUMBER: P519522

CATALOG NUMBER: SQ4-WB-125U-100D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)