

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: P519538

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519538
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

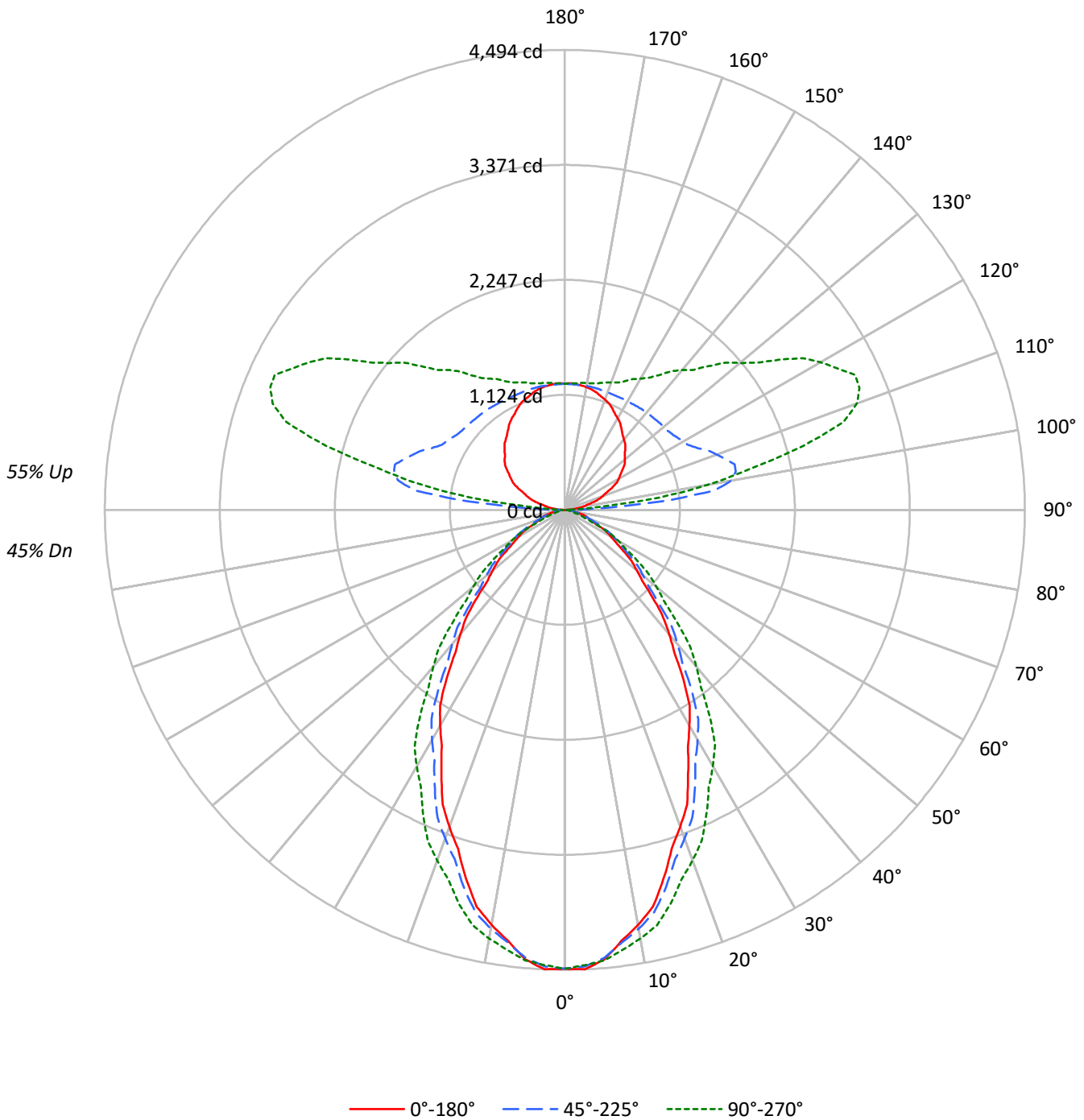
Lumens per Lamp: N/A
Luminaire Lumens: 14492.4 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

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



TEST NUMBER: P519538
CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P519538

CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-8

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	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°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17813	18227	19044
20°	16176	16785	17895
25°	14509	15301	16672
30°	12973	13822	15404
35°	11345	12164	13904
40°	9548	10307	12036
45°	7880	8561	10049
50°	6579	7172	8372
55°	5585	6155	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3503	2176
75°	3121	2839	1333
80°	2874	2614	1150
85°	2604	2392	937



TEST NUMBER: P519538

CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	2.8
10°-20°	1069.6	7.4
20°-30°	1385.5	9.6
30°-40°	1356.7	9.4
40°-50°	1038.5	7.2
50°-60°	692.0	4.8
60°-70°	377.6	2.6
70°-80°	157.3	1.1
80°-90°	47.4	0.3
90°-100°	576.6	4.0
100°-110°	1553.1	10.7
110°-120°	1629.9	11.2
120°-130°	1322.7	9.1
130°-140°	1037.3	7.2
140°-150°	796.4	5.5
150°-160°	572.6	4.0
160°-170°	349.8	2.4
170°-180°	118.0	0.8
0°-30°	2866.3	19.8
0°-40°	4223.1	29.1
0°-60°	5953.6	41.1
0°-90°	6536.0	45.1
90°-120°	3759.6	25.9
90°-150°	6916.0	47.7
90°-180°	7956.0	54.9
0°-180°	14492.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4483	4483	4483	4483	4483	
5°	4411	4366	4395	4405	4420	410
15°	3730	3716	3816	3920	3988	1042
25°	2850	2858	3006	3137	3276	1311
35°	2014	2024	2160	2305	2469	1252
45°	1208	1231	1312	1412	1540	942
55°	694	723	765	794	860	630
65°	348	377	411	359	327	362
75°	175	175	159	109	75	187
85°	49	49	45	29	18	54
90°	3	9	19	20	20	9
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	

TEST NUMBER: P519538

CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4483.4	4483.4	4483.4	4483.4	4483.4
2.5°	4494.4	4454.4	4464.5	4464.2	4451.9
5°	4410.6	4366.3	4394.8	4405.0	4420.4
7.5°	4246.9	4213.4	4265.4	4303.9	4335.0
10°	4119.4	4090.6	4156.8	4212.8	4253.2
12.5°	3971.5	3947.2	4029.3	4104.5	4157.2
15°	3729.9	3716.4	3816.5	3920.3	3987.6
17.5°	3471.4	3464.9	3579.6	3700.8	3787.0
20°	3295.1	3293.2	3419.1	3545.3	3645.3
22.5°	3117.3	3121.5	3253.8	3385.1	3498.9
25°	2850.5	2858.2	3006.0	3137.0	3275.5
27.5°	2603.8	2607.3	2760.0	2898.4	3046.1
30°	2435.5	2445.1	2594.8	2738.0	2891.9
32.5°	2267.1	2278.2	2424.8	2572.8	2729.8
35°	2014.5	2024.1	2160.0	2305.4	2468.9
37.5°	1754.0	1767.1	1887.8	2025.2	2186.0
40°	1585.6	1604.8	1711.5	1841.0	1998.7
42.5°	1423.5	1447.4	1546.3	1669.1	1811.4
45°	1207.9	1231.0	1312.2	1411.5	1540.4
47.5°	1022.2	1048.7	1111.1	1196.6	1306.6
50°	916.7	941.7	999.4	1062.7	1166.6
52.5°	823.9	848.9	900.2	949.0	1037.5
55°	694.4	723.3	765.3	794.3	859.7
57.5°	588.2	615.9	649.2	662.3	701.9
60°	517.4	548.2	578.4	576.9	598.0
62.5°	452.9	479.0	509.1	488.3	489.5
65°	348.2	377.1	411.2	359.3	326.6
67.5°	281.3	287.5	322.6	250.5	211.7
70°	249.8	249.8	259.7	194.0	161.3
72.5°	219.9	219.9	210.9	157.8	123.5
75°	175.1	175.1	159.3	109.4	74.8
77.5°	135.0	133.4	122.0	81.6	54.3
80°	108.2	108.2	98.4	64.4	43.3
82.5°	84.6	84.6	76.3	50.3	32.3
85°	49.2	49.2	45.2	29.2	17.7
87.5°	17.9	19.2	19.5	13.5	12.0
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

TEST NUMBER: P519538

CATALOG NUMBER: SQ4-WB-125U-125D-930-1D-UNV-STD-W-8

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)