

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: P519640

Luminaire Tested: **SQ4-WB-150U-125D-940-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519640
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

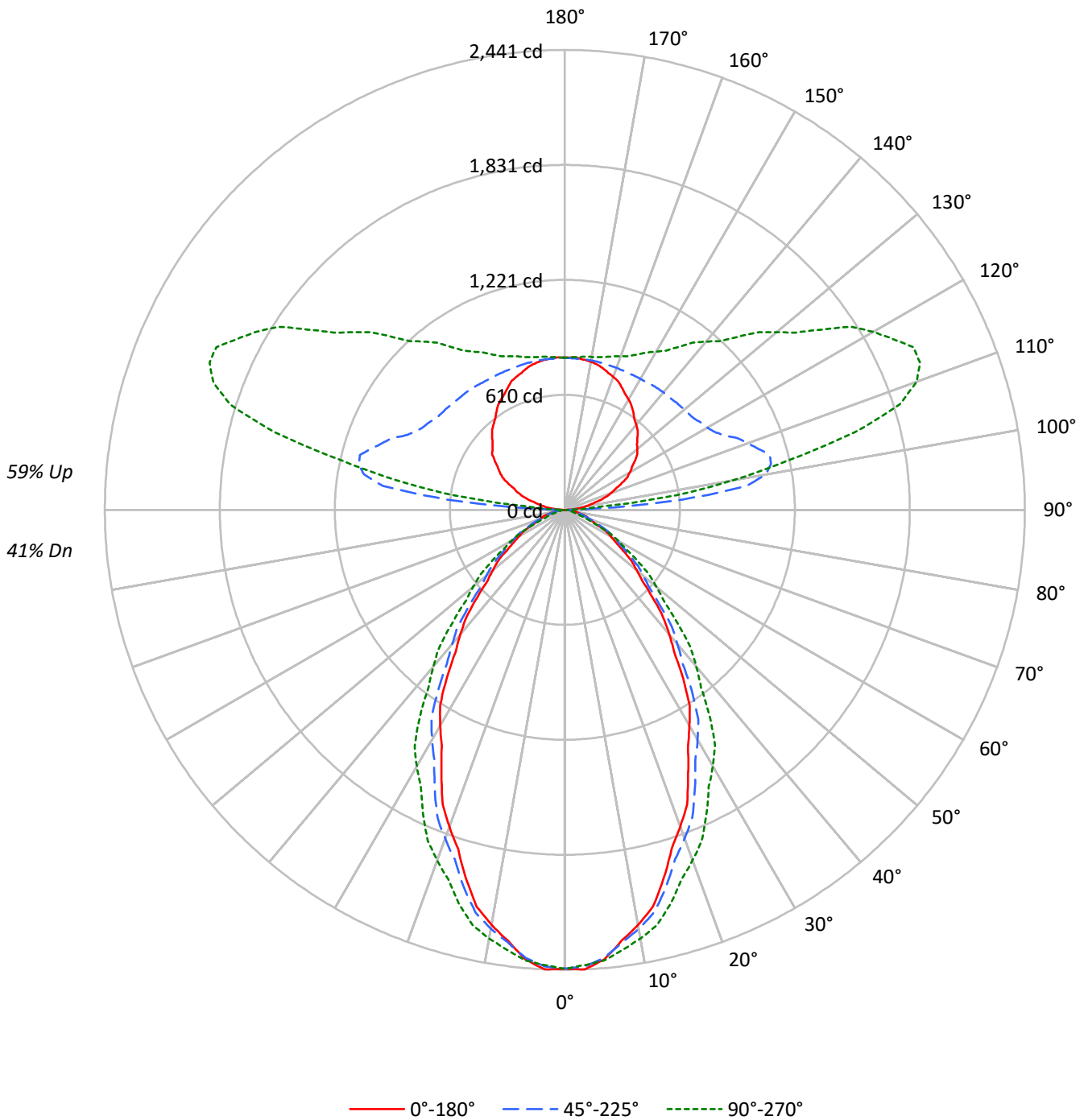
Lumens per Lamp: N/A
Luminaire Lumens: 8757.9 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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: P519640
CATALOG NUMBER: SQ4-WB-150U-125D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519640

CATALOG NUMBER: SQ4-WB-150U-125D-940-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	50	30	10	50	30	10	50	30	10	0																
RCR	0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41	41	41	41	41	41	41	41	41	41	41	41																
	1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36	36	36	36	36	36	36	36	36	36	36	36																
	2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32	32	32	32	32	32	32	32	32	32	32	32																
	3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28	28	28	28	28	28	28	28	28	28	28	28																
	4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25	25	25	25	25	25	25	25	25	25	25	25																
	5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22	22	22	22	22	22	22	22	22	22	22	22																
	6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20	20	20	20	20	20	20	20	20	20	20	20																
	7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18	18	18	18	18	18	18	18	18	18	18	18	18															
	8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17	17	17	17	17	17	17	17	17	17	17	17	17															
	9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15	15	15	15	15	15	15	15	15	15	15	15	15															
	10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14	14	14	14	14	14	14	14	14	14	14	14	14															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17574	18235	19441
25°	15763	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9299	10917
50°	7148	7791	9096
55°	6067	6687	7512
60°	5185	5798	5993
65°	4128	4875	3873
70°	3661	3806	2363
75°	3390	3087	1447
80°	3124	2837	1249
85°	2826	2604	1016



TEST NUMBER: P519640

CATALOG NUMBER: SQ4-WB-150U-125D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	2.6
10°-20°	581.0	6.6
20°-30°	752.6	8.6
30°-40°	737.0	8.4
40°-50°	564.1	6.4
50°-60°	375.9	4.3
60°-70°	205.1	2.3
70°-80°	85.5	1.0
80°-90°	25.9	0.3
90°-100°	375.4	4.3
100°-110°	1014.9	11.6
110°-120°	1067.1	12.2
120°-130°	866.7	9.9
130°-140°	679.9	7.8
140°-150°	521.8	6.0
150°-160°	375.3	4.3
160°-170°	229.3	2.6
170°-180°	77.3	0.9
0°-30°	1556.9	17.8
0°-40°	2293.9	26.2
0°-60°	3233.9	36.9
0°-90°	3550.3	40.5
90°-120°	2457.4	28.1
90°-150°	4525.8	51.7
90°-180°	5208.0	59.5
0°-180°	8757.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2396	2372	2387	2393	2401	223
15°	2026	2019	2073	2129	2166	566
25°	1548	1552	1633	1704	1779	712
35°	1094	1099	1173	1252	1341	680
45°	656	669	713	767	837	512
55°	377	393	416	431	467	342
65°	189	205	223	195	177	197
75°	95	95	87	59	41	102
85°	27	27	25	16	10	29
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

TEST NUMBER: P519640

CATALOG NUMBER: SQ4-WB-150U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2435.3	2435.3	2435.3	2435.3	2435.3
2.5°	2441.3	2419.5	2425.0	2424.9	2418.2
5°	2395.7	2371.7	2387.2	2392.7	2401.1
7.5°	2306.8	2288.7	2316.9	2337.8	2354.7
10°	2237.6	2221.9	2257.9	2288.3	2310.3
12.5°	2157.2	2144.1	2188.7	2229.5	2258.1
15°	2026.0	2018.7	2073.0	2129.4	2166.0
17.5°	1885.6	1882.1	1944.4	2010.2	2057.0
20°	1789.9	1788.8	1857.2	1925.7	1980.1
22.5°	1693.3	1695.6	1767.4	1838.7	1900.6
25°	1548.4	1552.5	1632.8	1703.9	1779.2
27.5°	1414.4	1416.2	1499.2	1574.3	1654.6
30°	1322.9	1328.1	1409.5	1487.2	1570.8
32.5°	1231.4	1237.5	1317.1	1397.5	1482.8
35°	1094.2	1099.4	1173.3	1252.3	1341.1
37.5°	952.7	959.8	1025.4	1100.1	1187.4
40°	861.3	871.7	929.7	1000.0	1085.7
42.5°	773.2	786.2	839.9	906.6	983.9
45°	656.1	668.6	712.7	766.7	836.7
47.5°	555.2	569.7	603.5	650.0	709.7
50°	498.0	511.5	542.8	577.2	633.7
52.5°	447.5	461.1	489.0	515.5	563.6
55°	377.2	392.9	415.7	431.4	467.0
57.5°	319.5	334.5	352.6	359.7	381.3
60°	281.0	297.8	314.2	313.4	324.8
62.5°	246.0	260.2	276.5	265.2	265.9
65°	189.1	204.8	223.3	195.1	177.4
67.5°	152.8	156.1	175.2	136.1	115.0
70°	135.7	135.7	141.1	105.4	87.6
72.5°	119.5	119.5	114.6	85.7	67.1
75°	95.1	95.1	86.6	59.4	40.6
77.5°	73.3	72.5	66.3	44.3	29.5
80°	58.8	58.8	53.4	35.0	23.5
82.5°	45.9	45.9	41.5	27.3	17.5
85°	26.7	26.7	24.6	15.9	9.6
87.5°	9.8	10.4	10.8	7.5	6.5
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9

TEST NUMBER: P519640

CATALOG NUMBER: SQ4-WB-150U-125D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)