

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522067

Luminaire Tested: **SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522067
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

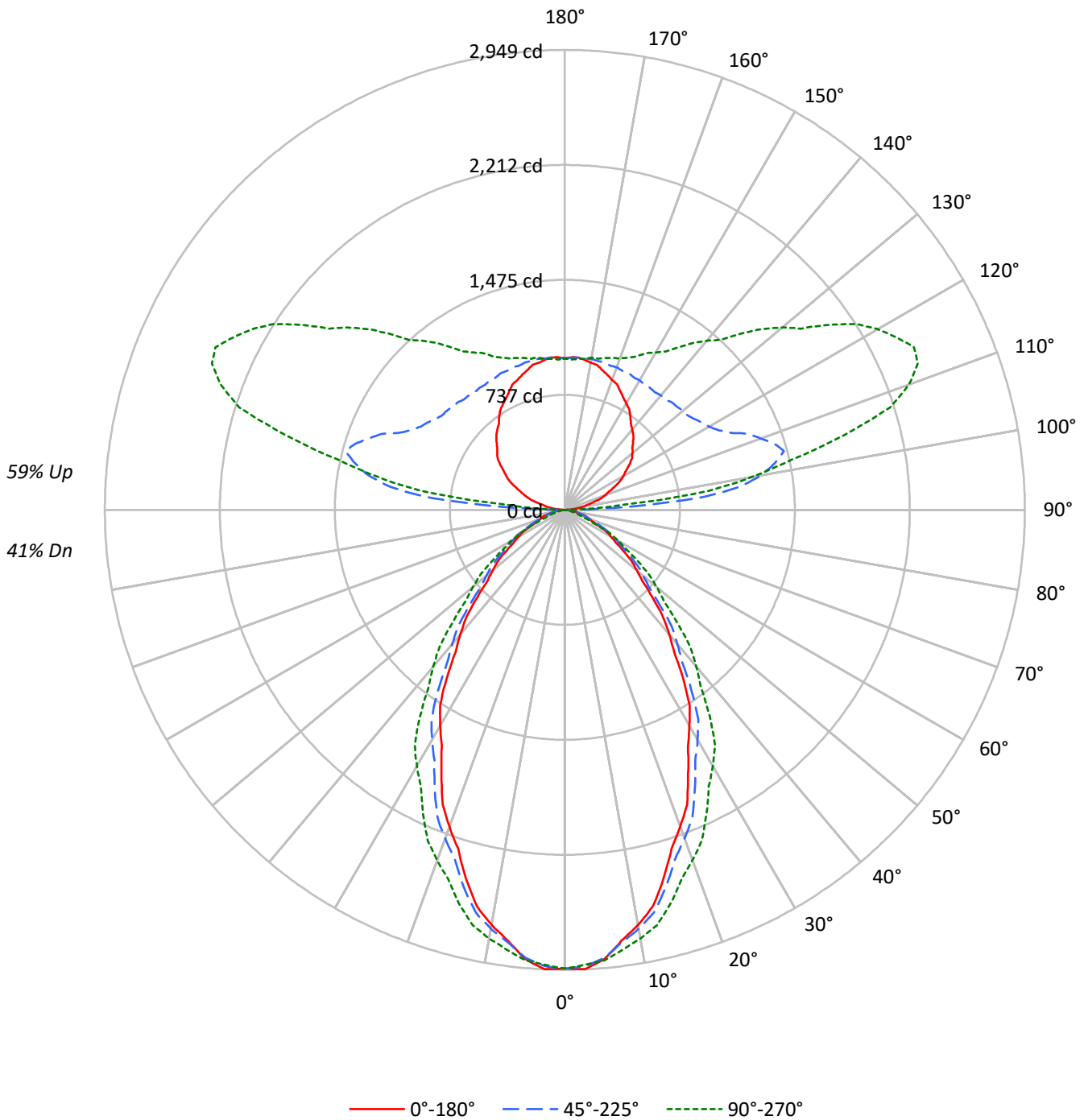
Lumens per Lamp: N/A
Luminaire Lumens: 10574.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.4
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	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	60	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	29	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	35	28	24	30	25	22	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27138	27138	27138
5°	26799	26704	26859
10°	25319	25549	26142
15°	23374	23915	24988
20°	21225	22023	23481
25°	19038	20076	21876
30°	17022	18137	20212
35°	14885	15961	18244
40°	12529	13524	15793
45°	10340	11233	13186
50°	8632	9410	10986
55°	7329	8076	9072
60°	6263	7001	7241
65°	4986	5888	4676
70°	4421	4597	2854
75°	4096	3725	1747
80°	3772	3427	1509
85°	3419	3144	1228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.8	2.6
10°-20°	701.7	6.6
20°-30°	909.0	8.6
30°-40°	890.1	8.4
40°-50°	681.3	6.4
50°-60°	454.0	4.3
60°-70°	247.7	2.3
70°-80°	103.2	1.0
80°-90°	29.2	0.3
90°-100°	500.6	4.7
100°-110°	1209.9	11.4
110°-120°	1290.5	12.2
120°-130°	1045.2	9.9
130°-140°	809.2	7.7
140°-150°	617.3	5.8
150°-160°	446.9	4.2
160°-170°	275.2	2.6
170°-180°	93.2	0.9
0°-30°	1880.5	17.8
0°-40°	2770.6	26.2
0°-60°	3905.9	36.9
0°-90°	4286.1	40.5
90°-120°	3001.0	28.4
90°-150°	5472.7	51.8
90°-180°	6288.0	59.5
0°-180°	10574.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2941	2941	2941	2941	2941	
5°	2894	2865	2883	2890	2900	269
15°	2447	2438	2504	2572	2616	683
25°	1870	1875	1972	2058	2149	860
35°	1322	1328	1417	1512	1620	822
45°	792	808	861	926	1011	618
55°	456	474	502	521	564	413
65°	228	247	270	236	214	237
75°	115	115	104	72	49	123
85°	32	32	30	19	12	35
90°	0	0	0	0	0	4
95°	49	250	858	558	391	55
105°	193	334	1454	1882	1857	204
115°	354	452	1168	2215	2470	350
125°	504	580	1014	1762	2069	450
135°	619	692	973	1389	1598	478
145°	732	787	954	1181	1273	458
155°	839	875	967	1046	1084	387
165°	928	942	979	994	1008	262
175°	981	977	981	973	971	93
180°	971	971	971	971	971	

TEST NUMBER: P522067

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2941.4	2941.4	2941.4	2941.4	2941.4
2.5°	2948.6	2922.4	2929.0	2928.8	2920.7
5°	2893.6	2864.6	2883.3	2890.0	2900.1
7.5°	2786.2	2764.3	2798.4	2823.6	2844.1
10°	2702.6	2683.7	2727.1	2763.9	2790.4
12.5°	2605.5	2589.6	2643.5	2692.8	2727.4
15°	2447.1	2438.2	2503.8	2572.0	2616.1
17.5°	2277.5	2273.2	2348.5	2428.0	2484.5
20°	2161.8	2160.6	2243.1	2325.9	2391.6
22.5°	2045.2	2047.9	2134.7	2220.8	2295.5
25°	1870.1	1875.2	1972.1	2058.1	2148.9
27.5°	1708.3	1710.6	1810.8	1901.5	1998.4
30°	1597.8	1604.1	1702.4	1796.3	1897.2
32.5°	1487.3	1494.7	1590.8	1687.9	1790.9
35°	1321.6	1327.9	1417.1	1512.5	1619.8
37.5°	1150.7	1159.3	1238.5	1328.7	1434.2
40°	1040.3	1052.9	1122.9	1207.8	1311.3
42.5°	933.9	949.6	1014.4	1095.0	1188.4
45°	792.5	807.6	860.9	926.0	1010.6
47.5°	670.6	688.0	729.0	785.1	857.2
50°	601.4	617.8	655.6	697.2	765.4
52.5°	540.5	556.9	590.6	622.6	680.7
55°	455.6	474.5	502.1	521.1	564.0
57.5°	385.9	404.1	425.9	434.5	460.5
60°	339.4	359.6	379.4	378.5	392.4
62.5°	297.1	314.3	334.0	320.4	321.1
65°	228.4	247.4	269.7	235.7	214.2
67.5°	184.6	188.6	211.7	164.4	138.9
70°	163.9	163.9	170.4	127.3	105.8
72.5°	144.3	144.3	138.4	103.5	81.1
75°	114.9	114.9	104.5	71.8	49.0
77.5°	88.5	87.5	80.0	53.5	35.6
80°	71.0	71.0	64.5	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.4	11.4	10.3	6.2	5.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.5	135.5	319.2	155.2	105.3
95°	49.4	250.5	857.7	557.7	390.8
97.5°	87.6	277.5	1129.6	1088.3	934.2
100°	117.2	294.2	1279.4	1350.6	1223.9
102.5°	145.2	309.3	1378.1	1568.9	1493.7
105°	193.3	334.1	1454.2	1881.5	1857.4
107.5°	240.7	363.3	1409.4	2132.2	2189.0
110°	273.6	388.2	1337.0	2240.3	2346.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	306.5	413.1	1272.8	2266.7	2448.9
115°	353.8	452.3	1168.3	2214.9	2470.3
117.5°	400.7	493.6	1107.0	2095.8	2395.1
120°	431.9	518.4	1067.5	2002.3	2316.1
122.5°	464.9	544.9	1042.8	1906.8	2215.7
125°	503.9	580.4	1014.1	1761.5	2069.2
127.5°	542.6	614.6	993.9	1638.5	1908.8
130°	565.6	636.0	987.3	1552.8	1818.3
132.5°	587.0	660.6	977.4	1491.0	1716.3
135°	619.1	691.5	972.9	1389.0	1598.2
137.5°	649.6	722.4	958.5	1320.0	1477.7
140°	672.6	739.0	958.5	1270.3	1415.1
142.5°	695.6	762.0	950.3	1227.0	1349.3
145°	732.3	786.6	954.4	1180.7	1273.2
147.5°	766.4	819.1	951.9	1127.3	1203.7
150°	787.8	834.0	958.5	1103.9	1164.2
152.5°	810.8	855.5	956.9	1079.0	1132.9
155°	839.2	875.4	966.7	1045.8	1084.0
157.5°	873.4	904.3	964.7	1033.1	1055.6
160°	886.5	912.7	972.9	1016.5	1032.6
162.5°	907.9	930.8	969.6	1011.4	1021.0
165°	927.7	941.7	979.1	993.8	1007.9
167.5°	951.9	961.2	976.6	992.7	993.1
170°	958.5	964.5	983.2	981.4	991.4
172.5°	970.0	974.5	978.3	982.6	976.6
175°	981.1	977.1	981.1	972.9	970.9
177.5°	979.1	979.1	975.8	972.3	964.3
180°	970.9	970.9	970.9	970.9	970.9

(END OF REPORT)