

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: P522054

Luminaire Tested: **SQ4-WB-150U-100D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522054
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-100D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

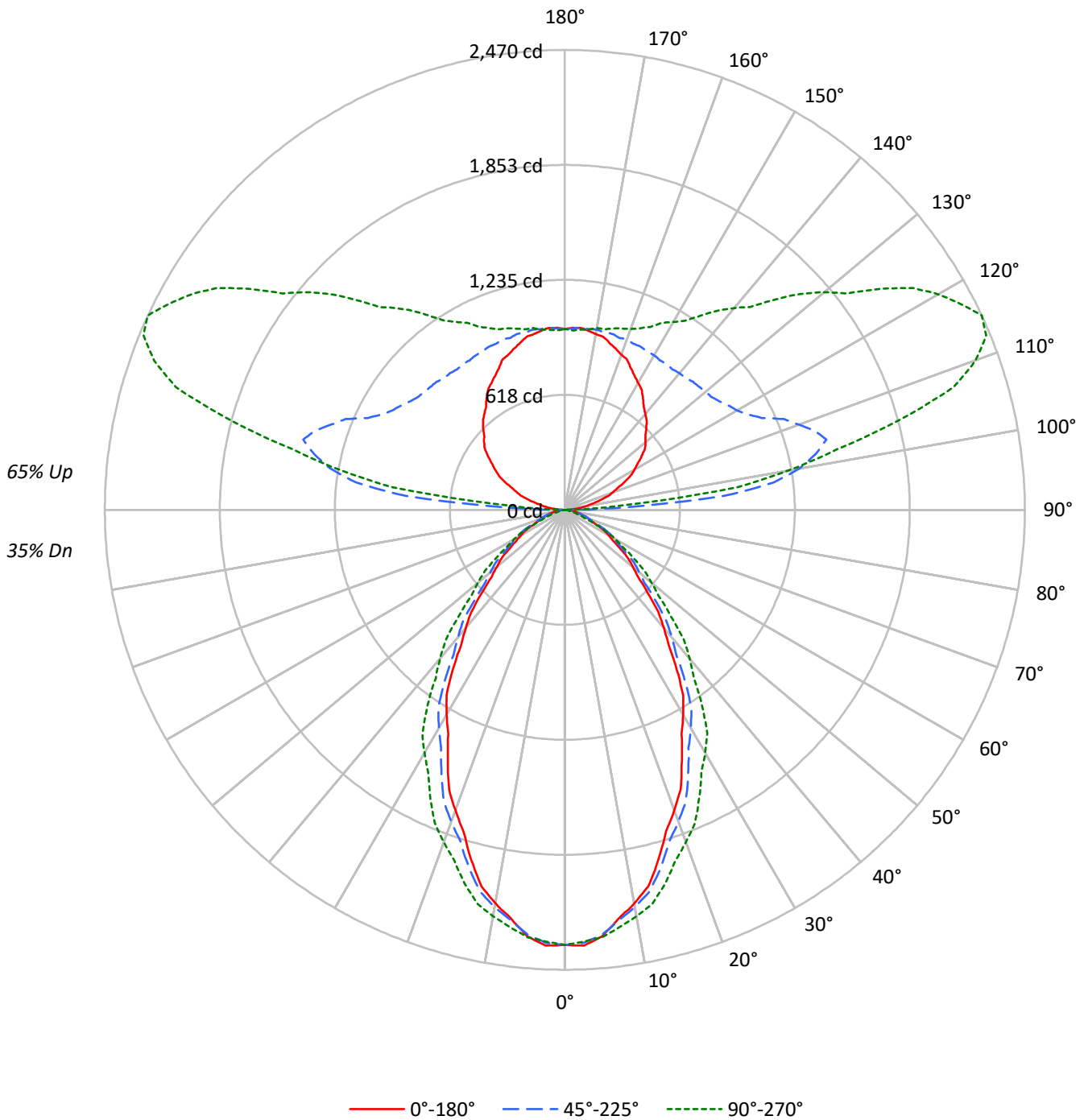
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9693.3 lumens
Efficiency: N/A
Efficacy: 103.9 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: Semi-Indirect

Input Watts (W): 93.3
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	37	31
2	87	81	75	70	79	73	69	65	60	56	54	47	45	43	35	34	33	27
3	80	72	65	60	72	65	60	55	53	49	46	42	40	37	32	30	29	24
4	74	64	57	51	67	58	52	47	48	43	40	38	35	33	29	27	26	22
5	68	57	50	44	62	52	46	41	43	39	35	35	31	29	27	25	23	19
6	63	52	44	39	57	47	41	36	39	34	31	32	28	26	24	22	21	18
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21561	21561	21561
5°	21292	21216	21339
10°	20116	20299	20769
15°	18570	19001	19853
20°	16864	17498	18656
25°	15125	15950	17380
30°	13525	14409	16058
35°	11826	12681	14495
40°	9954	10744	12547
45°	8215	8923	10476
50°	6858	7477	8728
55°	5823	6416	7208
60°	4977	5563	5752
65°	3962	4678	3716
70°	3512	3652	2269
75°	3255	2962	1390
80°	2997	2726	1201
85°	2710	2498	974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	2.2
10°-20°	557.5	5.8
20°-30°	722.2	7.5
30°-40°	707.2	7.3
40°-50°	541.3	5.6
50°-60°	360.7	3.7
60°-70°	196.8	2.0
70°-80°	82.0	0.8
80°-90°	23.2	0.2
90°-100°	500.6	5.2
100°-110°	1209.9	12.5
110°-120°	1290.5	13.3
120°-130°	1045.2	10.8
130°-140°	809.2	8.3
140°-150°	617.3	6.4
150°-160°	446.9	4.6
160°-170°	275.2	2.8
170°-180°	93.2	1.0
0°-30°	1494.0	15.4
0°-40°	2201.2	22.7
0°-60°	3103.2	32.0
0°-90°	3405.3	35.1
90°-120°	3001.0	31.0
90°-150°	5472.7	56.5
90°-180°	6288.0	64.9
0°-180°	9693.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2299	2276	2291	2296	2304	214
15°	1944	1937	1989	2043	2078	543
25°	1486	1490	1567	1635	1707	683
35°	1050	1055	1126	1202	1287	653
45°	630	642	684	736	803	491
55°	362	377	399	414	448	328
65°	182	196	214	187	170	189
75°	91	91	83	57	39	97
85°	26	26	24	15	9	28
90°	0	0	0	0	0	3
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	

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CATALOG NUMBER: SQ4-WB-150U-100D-93050-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2336.9	2336.9	2336.9	2336.9	2336.9
2.5°	2342.6	2321.8	2327.1	2326.9	2320.5
5°	2299.0	2275.9	2290.8	2296.1	2304.1
7.5°	2213.6	2196.2	2223.3	2243.3	2259.6
10°	2147.2	2132.2	2166.7	2195.9	2216.9
12.5°	2070.1	2057.5	2100.2	2139.4	2166.9
15°	1944.2	1937.1	1989.3	2043.4	2078.5
17.5°	1809.4	1806.0	1865.8	1929.0	1973.9
20°	1717.6	1716.6	1782.2	1847.9	1900.1
22.5°	1624.9	1627.1	1696.0	1764.4	1823.8
25°	1485.8	1489.8	1566.8	1635.1	1707.3
27.5°	1357.2	1359.0	1438.6	1510.7	1587.7
30°	1269.5	1274.5	1352.5	1427.1	1507.3
32.5°	1181.7	1187.5	1263.9	1341.0	1422.9
35°	1050.0	1055.0	1125.9	1201.7	1286.9
37.5°	914.3	921.1	984.0	1055.6	1139.4
40°	826.5	836.5	892.1	959.6	1041.8
42.5°	742.0	754.4	806.0	870.0	944.2
45°	629.6	641.6	683.9	735.7	802.9
47.5°	532.8	546.6	579.1	623.7	681.1
50°	477.8	490.9	520.9	553.9	608.1
52.5°	429.4	442.5	469.2	494.7	540.8
55°	362.0	377.0	398.9	414.0	448.1
57.5°	306.6	321.0	338.4	345.2	365.9
60°	269.7	285.7	301.5	300.7	311.7
62.5°	236.0	249.7	265.4	254.5	255.1
65°	181.5	196.5	214.3	187.3	170.2
67.5°	146.6	149.8	168.2	130.6	110.3
70°	130.2	130.2	135.4	101.1	84.1
72.5°	114.6	114.6	109.9	82.2	64.4
75°	91.3	91.3	83.1	57.0	39.0
77.5°	70.3	69.5	63.6	42.5	28.3
80°	56.4	56.4	51.3	33.6	22.6
82.5°	44.1	44.1	39.8	26.2	16.8
85°	25.6	25.6	23.6	15.2	9.2
87.5°	9.0	9.0	8.2	4.9	4.1
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)