

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: P522023

Luminaire Tested: **SQ4-WB-150U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522023
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

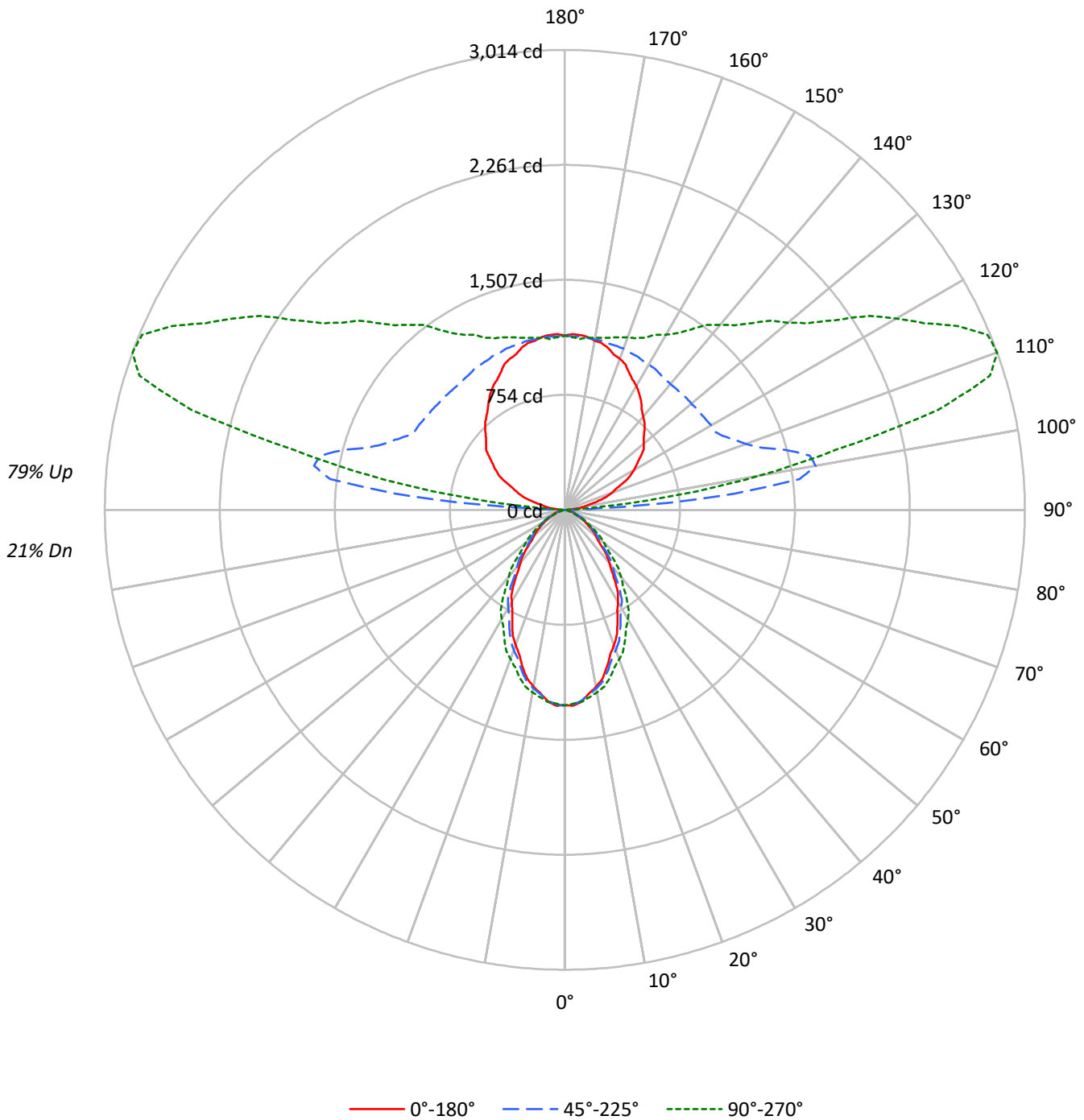
Lumens per Lamp: N/A
Luminaire Lumens: 8956.3 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.3
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	100	100	100	100	89	89	89	89	67	67	67	47	47	47	29	29	29	21
1	92	88	84	81	81	78	75	72	59	57	56	42	41	40	27	26	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	36	34	24	23	22	16
3	77	68	62	56	68	61	55	51	47	43	40	34	31	30	22	21	20	14
4	70	61	53	48	62	54	48	43	42	38	34	30	28	26	20	18	17	13
5	65	54	47	41	57	48	42	37	37	33	30	27	25	23	18	17	15	12
6	60	48	41	36	53	43	37	32	34	29	26	25	22	20	17	15	14	10
7	55	44	36	31	49	39	33	29	31	26	23	23	20	18	15	14	12	9
8	51	40	33	28	45	36	30	25	28	24	21	21	18	16	14	12	11	9
9	48	36	29	25	42	33	27	22	26	21	18	19	16	14	13	11	10	8
10	44	33	26	22	39	30	24	20	24	19	17	18	15	13	12	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11822	11822	11822
5°	11674	11632	11700
10°	11030	11130	11387
15°	10182	10418	10885
20°	9246	9593	10229
25°	8293	8746	9529
30°	7415	7901	8804
35°	6484	6953	7947
40°	5457	5891	6880
45°	4504	4893	5744
50°	3761	4099	4785
55°	3193	3518	3952
60°	2729	3050	3154
65°	2172	2565	2037
70°	1926	2002	1244
75°	1782	1622	763
80°	1642	1493	659
85°	1493	1366	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	1.3
10°-20°	305.7	3.4
20°-30°	395.9	4.4
30°-40°	387.7	4.3
40°-50°	296.8	3.3
50°-60°	197.8	2.2
60°-70°	107.9	1.2
70°-80°	45.0	0.5
80°-90°	12.7	0.1
90°-100°	520.1	5.8
100°-110°	1479.7	16.5
110°-120°	1417.7	15.8
120°-130°	1122.1	12.5
130°-140°	900.6	10.1
140°-150°	705.1	7.9
150°-160°	515.9	5.8
160°-170°	319.6	3.6
170°-180°	108.4	1.2
0°-30°	819.2	9.1
0°-40°	1206.9	13.5
0°-60°	1701.4	19.0
0°-90°	1867.1	20.8
90°-120°	3417.5	38.2
90°-150°	6145.3	68.6
90°-180°	7089.0	79.2
0°-180°	8956.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1260	1248	1256	1259	1263	117
15°	1066	1062	1091	1120	1140	298
25°	815	817	859	896	936	375
35°	576	578	617	659	706	358
45°	345	352	375	403	440	269
55°	198	207	219	227	246	180
65°	100	108	118	103	93	103
75°	50	50	46	31	21	53
85°	14	14	13	8	5	15
90°	0	0	0	0	0	3
95°	56	224	1007	348	215	64
105°	230	349	1508	2664	2532	243
115°	427	516	1143	2422	2844	421
125°	603	669	1091	1811	2165	540
135°	738	799	1078	1530	1729	569
145°	870	915	1087	1324	1443	544
155°	994	1017	1113	1197	1245	459
165°	1098	1102	1126	1150	1167	309
175°	1150	1144	1139	1132	1124	109
180°	1141	1141	1141	1141	1141	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1281.3	1281.3	1281.3	1281.3	1281.3
2.5°	1284.4	1273.0	1275.9	1275.8	1272.3
5°	1260.5	1247.8	1256.0	1258.9	1263.3
7.5°	1213.7	1204.1	1219.0	1230.0	1238.9
10°	1177.3	1169.0	1188.0	1204.0	1215.5
12.5°	1135.0	1128.1	1151.5	1173.0	1188.1
15°	1066.0	1062.1	1090.7	1120.4	1139.6
17.5°	992.1	990.2	1023.0	1057.6	1082.3
20°	941.7	941.2	977.1	1013.2	1041.8
22.5°	890.9	892.1	929.9	967.4	999.9
25°	814.6	816.8	859.1	896.5	936.1
27.5°	744.1	745.1	788.8	828.3	870.5
30°	696.0	698.8	741.6	782.5	826.4
32.5°	647.9	651.1	693.0	735.3	780.1
35°	575.7	578.5	617.3	658.8	705.6
37.5°	501.3	505.0	539.5	578.8	624.7
40°	453.1	458.6	489.1	526.1	571.2
42.5°	406.8	413.6	441.9	477.0	517.7
45°	345.2	351.8	375.0	403.4	440.2
47.5°	292.1	299.7	317.5	342.0	373.4
50°	262.0	269.1	285.6	303.7	333.4
52.5°	235.5	242.6	257.3	271.2	296.5
55°	198.5	206.7	218.7	227.0	245.7
57.5°	168.1	176.0	185.5	189.3	200.6
60°	147.9	156.7	165.3	164.9	170.9
62.5°	129.4	136.9	145.5	139.5	139.9
65°	99.5	107.8	117.5	102.7	93.3
67.5°	80.4	82.2	92.2	71.6	60.5
70°	71.4	71.4	74.2	55.4	46.1
72.5°	62.9	62.9	60.3	45.1	35.3
75°	50.0	50.0	45.5	31.3	21.4
77.5°	38.6	38.1	34.9	23.3	15.5
80°	30.9	30.9	28.1	18.4	12.4
82.5°	24.2	24.2	21.8	14.4	9.2
85°	14.1	14.1	12.9	8.4	5.1
87.5°	4.9	4.9	4.5	2.7	2.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	17.4	92.0	213.5	62.1	46.9
95°	56.4	224.0	1006.8	348.5	214.8
97.5°	103.7	262.4	1550.5	1109.5	760.3
100°	136.7	285.2	1668.5	1690.1	1301.8
102.5°	173.1	309.8	1642.5	2163.3	1824.3
105°	230.0	348.8	1508.0	2663.6	2532.1
107.5°	287.7	394.2	1350.9	2804.6	2921.8
110°	327.6	427.3	1260.6	2750.7	3013.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.8	460.4	1199.9	2623.0	<i>2998.1</i>
115°	427.4	516.5	1143.4	2422.3	<i>2844.5</i>
117.5°	481.7	565.3	1110.0	2202.9	<i>2650.1</i>
120°	525.1	595.1	1106.6	2077.5	<i>2506.0</i>
122.5°	559.8	629.8	1097.9	1967.4	<i>2365.4</i>
125°	603.2	669.0	1091.4	1811.1	<i>2165.4</i>
127.5°	650.5	712.0	1087.9	1717.7	<i>2009.6</i>
130°	674.8	736.3	1082.7	1652.6	<i>1907.2</i>
132.5°	700.8	760.6	1082.7	1601.8	<i>1836.0</i>
135°	737.7	799.2	1078.4	1529.8	<i>1729.3</i>
137.5°	772.4	832.2	1077.9	1468.9	<i>1641.2</i>
140°	798.5	860.0	1076.2	1418.4	<i>1583.9</i>
142.5°	828.0	879.3	1081.4	1378.1	<i>1526.6</i>
145°	870.1	914.6	1087.0	1324.1	<i>1442.9</i>
147.5°	906.1	949.4	1096.6	1269.5	<i>1372.1</i>
150°	937.3	967.0	1100.1	1251.4	<i>1323.5</i>
152.5°	961.6	993.0	1103.5	1227.0	<i>1294.0</i>
155°	993.7	1017.1	1113.1	1196.6	<i>1245.4</i>
157.5°	1033.7	1047.7	1115.2	1182.9	<i>1217.7</i>
160°	1054.5	1065.1	1123.9	1172.3	<i>1202.0</i>
162.5°	1066.6	1078.9	1125.7	1163.5	<i>1186.4</i>
165°	1097.9	1102.1	1126.1	1150.3	<i>1167.3</i>
167.5°	1119.1	1115.3	1136.1	1147.1	<i>1153.9</i>
170°	1126.1	1124.0	1132.6	1135.0	<i>1143.4</i>
172.5°	1141.7	1134.5	1137.8	1131.4	<i>1138.2</i>
175°	1150.0	1143.6	1139.1	1132.4	<i>1123.9</i>
177.5°	1153.4	1143.2	1137.8	1130.9	<i>1132.6</i>
180°	1141.3	1141.3	1141.3	1141.3	<i>1141.3</i>

(END OF REPORT)