

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: P519565

Luminaire Tested: **SQ4-WB-150U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519565
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-050D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

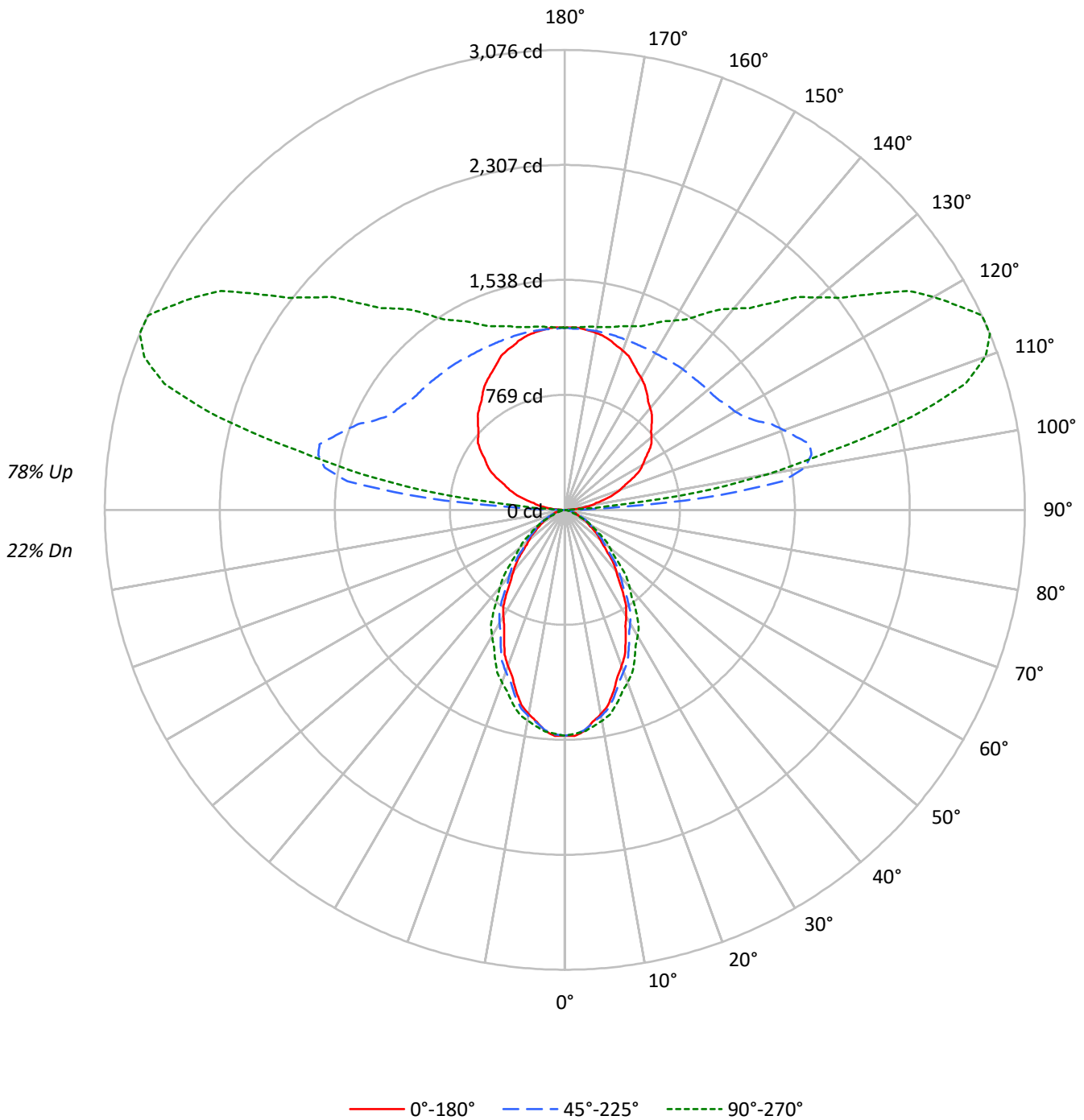
Lumens per Lamp: N/A
Luminaire Lumens: 10054.2 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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



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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	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	62	56	68	61	56	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	63	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	34	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	23	20	17	16	14	11
7	55	44	37	32	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	14	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9288	9288	9288
5°	9172	9139	9193
10°	8666	8745	8947
15°	8000	8185	8553
20°	7264	7538	8037
25°	6516	6871	7487
30°	5826	6207	6918
35°	5095	5463	6244
40°	4288	4629	5405
45°	3539	3845	4513
50°	2955	3221	3760
55°	2508	2765	3106
60°	2144	2396	2478
65°	1707	2016	1601
70°	1512	1574	977
75°	1402	1276	599
80°	1289	1172	517
85°	1172	1073	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.4
10°-20°	360.3	3.6
20°-30°	466.6	4.6
30°-40°	457.0	4.5
40°-50°	349.8	3.5
50°-60°	233.1	2.3
60°-70°	127.2	1.3
70°-80°	53.0	0.5
80°-90°	17.5	0.2
90°-100°	565.9	5.6
100°-110°	1530.2	15.2
110°-120°	1608.7	16.0
120°-130°	1306.7	13.0
130°-140°	1025.0	10.2
140°-150°	786.7	7.8
150°-160°	565.8	5.6
160°-170°	345.6	3.4
170°-180°	116.5	1.2
0°-30°	965.4	9.6
0°-40°	1422.4	14.1
0°-60°	2005.2	19.9
0°-90°	2203.0	21.9
90°-120°	3704.8	36.8
90°-150°	6823.3	67.9
90°-180°	7851.0	78.1
0°-180°	10054.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1486	1471	1480	1484	1489	138
15°	1256	1252	1285	1320	1343	351
25°	960	963	1012	1057	1103	442
35°	678	682	728	776	832	422
45°	407	415	442	475	519	317
55°	234	244	258	268	290	212
65°	117	127	138	121	110	122
75°	59	59	54	37	25	63
85°	17	17	15	10	6	18
90°	3	8	17	18	17	7
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510.1	1510.1	1510.1	1510.1	1510.1
2.5°	1513.8	1500.3	1503.7	1503.6	1499.5
5°	1485.5	1470.6	1480.2	1483.7	1488.9
7.5°	1430.4	1419.1	1436.6	1449.6	1460.1
10°	1387.5	1377.8	1400.1	1418.9	1432.5
12.5°	1337.7	1329.5	1357.1	1382.4	1400.2
15°	1256.3	1251.7	1285.4	1320.4	1343.1
17.5°	1169.2	1167.0	1205.7	1246.5	1275.5
20°	1109.8	1109.2	1151.6	1194.1	1227.8
22.5°	1050.0	1051.4	1095.9	1140.1	1178.5
25°	960.1	962.7	1012.4	1056.6	1103.2
27.5°	877.0	878.2	929.6	976.2	1026.0
30°	820.3	823.5	874.0	922.2	974.0
32.5°	763.6	767.3	816.7	866.6	919.4
35°	678.5	681.7	727.5	776.5	831.6
37.5°	590.8	595.2	635.8	682.1	736.3
40°	534.1	540.5	576.5	620.1	673.2
42.5°	479.5	487.5	520.8	562.2	610.1
45°	406.8	414.6	442.0	475.4	518.8
47.5°	344.3	353.2	374.2	403.0	440.1
50°	308.8	317.2	336.6	357.9	392.9
52.5°	277.5	285.9	303.2	319.7	349.5
55°	233.9	243.6	257.8	267.5	289.6
57.5°	198.1	207.4	218.7	223.1	236.4
60°	174.3	184.6	194.8	194.3	201.4
62.5°	152.5	161.3	171.5	164.5	164.9
65°	117.3	127.0	138.5	121.0	110.0
67.5°	94.8	96.8	108.7	84.4	71.3
70°	84.1	84.1	87.5	65.3	54.3
72.5°	74.1	74.1	71.0	53.1	41.6
75°	59.0	59.0	53.7	36.8	25.2
77.5°	45.5	44.9	41.1	27.5	18.3
80°	36.4	36.4	33.1	21.7	14.6
82.5°	28.5	28.5	25.7	17.0	10.9
85°	16.6	16.6	15.2	9.9	6.0
87.5°	6.4	7.4	8.7	6.8	6.1
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)