

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: P565143

Luminaire Tested: **SQ4-PW1-150U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565143
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

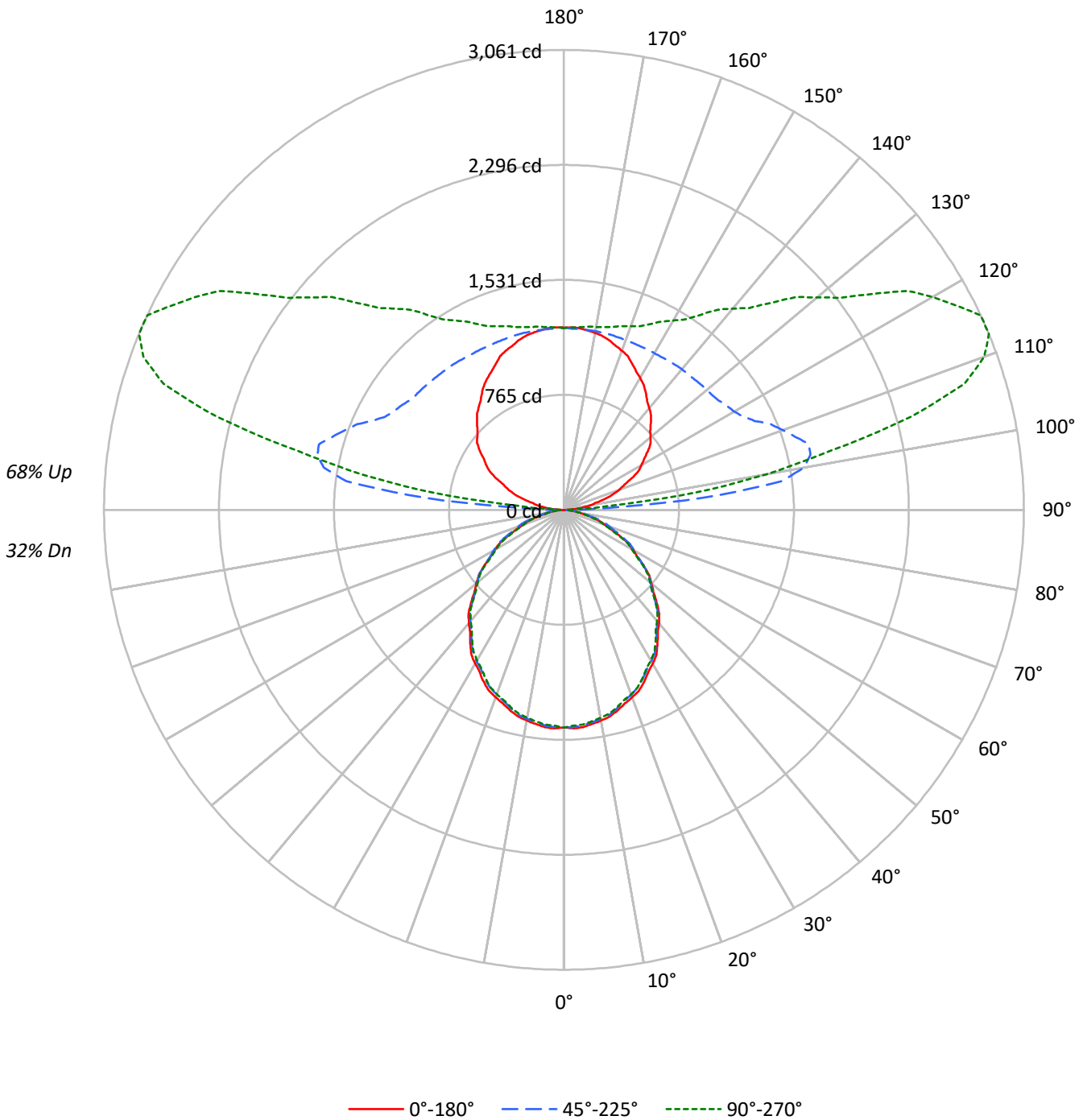
Lumens per Lamp: N/A
Luminaire Lumens: 11498.8 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 97.8
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	94	90	86	83	84	81	78	75	64	62	60	49	48	46	35	34	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	28	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	22	21	17
5	65	54	46	40	59	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	18	16	13
7	55	44	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8417	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7899	7776	7746
45°	7592	7492	7459
50°	7277	7216	7167
55°	6938	6938	6829
60°	6515	6640	6404
65°	5961	6258	5813
70°	5255	5760	5118
75°	4489	5155	4368
80°	3482	4339	3524
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.2
10°-20°	385.0	3.3
20°-30°	571.2	5.0
30°-40°	668.3	5.8
40°-50°	665.3	5.8
50°-60°	574.5	5.0
60°-70°	413.6	3.6
70°-80°	216.9	1.9
80°-90°	56.3	0.5
90°-100°	563.1	4.9
100°-110°	1522.4	13.2
110°-120°	1600.6	13.9
120°-130°	1300.1	11.3
130°-140°	1019.8	8.9
140°-150°	782.7	6.8
150°-160°	562.9	4.9
160°-170°	343.9	3.0
170°-180°	115.9	1.0
0°-30°	1092.6	9.5
0°-40°	1760.9	15.3
0°-60°	3000.7	26.1
0°-90°	3687.5	32.1
90°-120°	3686.0	32.1
90°-150°	6788.7	59.0
90°-180°	7811.0	67.9
0°-180°	11498.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1452	1436	1441	1437	1434	138
15°	1382	1364	1367	1364	1362	390
25°	1263	1242	1240	1233	1236	581
35°	1086	1071	1071	1060	1064	679
45°	873	865	861	859	858	673
55°	647	646	647	638	637	577
65°	410	422	430	413	399	406
75°	189	206	217	202	184	202
85°	32	42	47	45	42	42
90°	3	8	17	18	17	7
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1456.5	1444.5	1448.3	1445.1	1438.1
5°	1452.2	1435.9	1440.7	1436.8	1434.3
7.5°	1437.3	1422.4	1425.9	1421.7	1420.2
10°	1424.1	1409.1	1412.6	1407.4	1404.9
12.5°	1408.8	1392.8	1396.3	1391.1	1389.6
15°	1382.0	1364.5	1366.7	1364.0	1361.6
17.5°	1350.8	1333.1	1333.5	1329.4	1328.9
20°	1328.4	1309.7	1308.0	1302.9	1305.4
22.5°	1303.9	1284.2	1282.4	1275.4	1278.9
25°	1263.3	1242.1	1240.3	1232.8	1236.5
27.5°	1216.3	1195.4	1195.4	1184.8	1188.8
30°	1181.6	1161.7	1163.8	1151.1	1156.1
32.5°	1144.9	1126.9	1128.0	1115.4	1120.4
35°	1085.9	1071.0	1070.6	1060.5	1064.2
37.5°	1025.7	1012.5	1010.4	1004.5	1005.5
40°	983.8	972.6	968.5	964.7	964.7
42.5°	939.9	929.7	925.7	922.8	921.8
45°	872.8	865.3	861.3	858.8	857.5
47.5°	806.5	799.5	796.0	794.2	792.9
50°	760.5	755.5	754.1	750.3	749.0
52.5°	714.6	711.6	710.3	705.4	704.1
55°	647.0	645.7	647.0	638.0	636.8
57.5°	576.5	578.5	582.6	570.6	567.6
60°	529.6	534.6	539.8	525.6	520.6
62.5°	481.6	489.6	496.9	480.7	473.7
65°	409.6	422.1	430.0	413.1	399.4
67.5°	340.2	355.7	365.2	347.0	331.5
70°	292.2	309.7	320.3	302.0	284.6
72.5°	250.4	269.8	278.4	261.2	243.7
75°	188.9	206.3	216.9	202.5	183.8
77.5°	134.0	150.5	159.3	146.6	131.2
80°	98.3	115.7	122.5	112.0	99.5
82.5°	69.7	84.1	88.8	82.5	74.0
85°	31.9	41.9	47.2	44.6	42.1
87.5°	8.7	16.7	22.8	23.1	23.8
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)