

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: P563127

Luminaire Tested: **SQ4-PC3-150U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563127
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-150U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

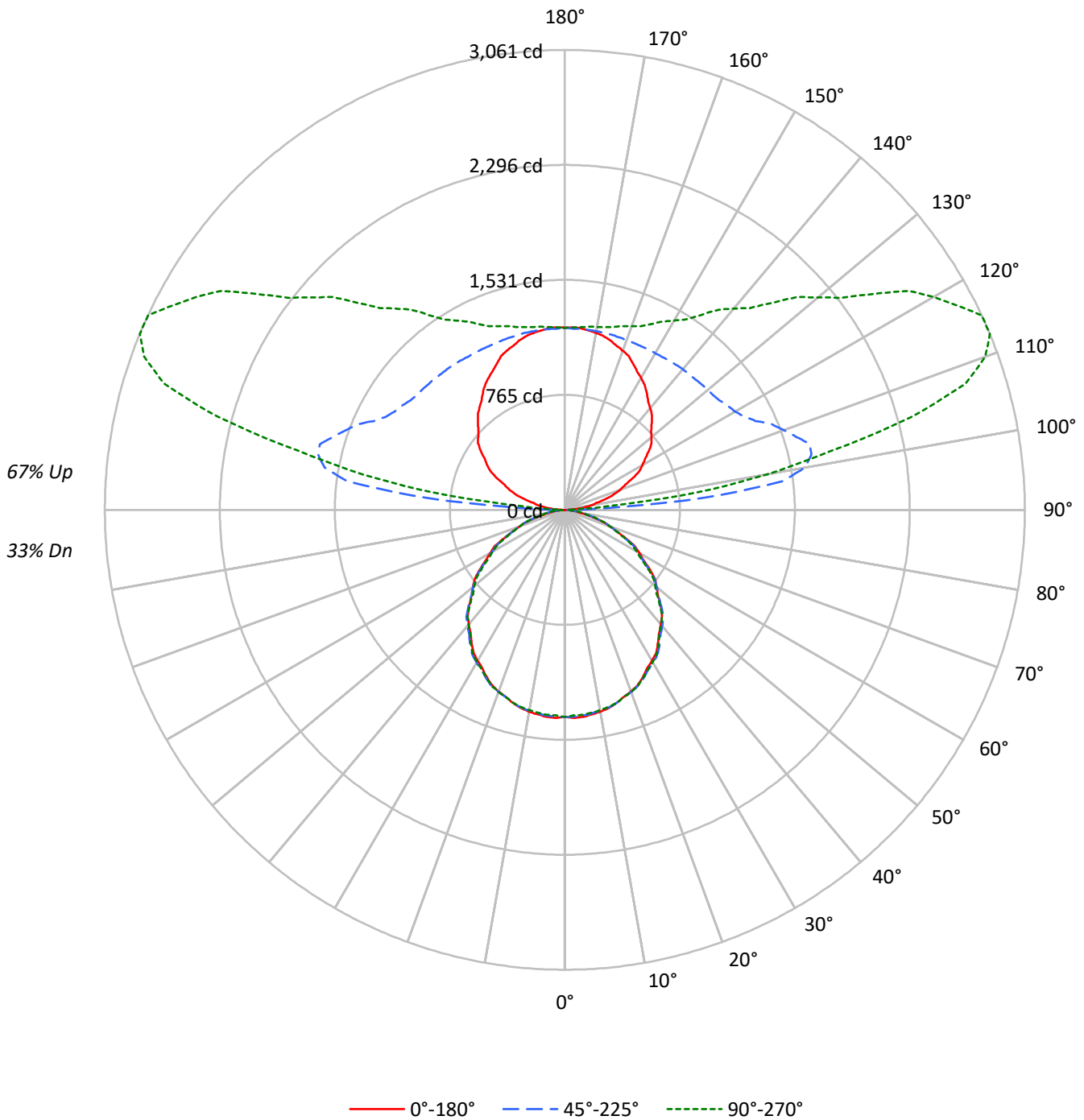
Lumens per Lamp: N/A
Luminaire Lumens: 11575.1 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8476	8476	8476
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8420	8444	8444
25°	8339	8401	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7981	8094	8012
45°	7837	7892	7770
50°	7631	7631	7510
55°	7390	7293	7184
60°	7033	6891	6782
65°	6500	6370	6315
70°	5692	5737	5713
75°	4579	5064	5095
80°	3255	4293	4339
85°	1983	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.1
10°-20°	374.3	3.2
20°-30°	566.8	4.9
30°-40°	679.5	5.9
40°-50°	692.9	6.0
50°-60°	604.8	5.2
60°-70°	433.0	3.7
70°-80°	223.0	1.9
80°-90°	58.9	0.5
90°-100°	563.1	4.9
100°-110°	1522.4	13.2
110°-120°	1600.6	13.8
120°-130°	1300.1	11.2
130°-140°	1019.8	8.8
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°	1071.5	9.3
0°-40°	1751.0	15.1
0°-60°	3048.8	26.3
0°-90°	3763.7	32.5
90°-120°	3686.0	31.8
90°-150°	6788.7	58.6
90°-180°	7811.0	67.5
0°-180°	11575.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1383	1370	1374	1370	1369	131
15°	1331	1320	1331	1331	1330	375
25°	1229	1220	1238	1234	1234	566
35°	1081	1078	1097	1090	1090	676
45°	901	898	907	896	893	693
55°	689	680	680	670	670	614
65°	447	437	438	434	434	442
75°	193	201	213	214	214	208
85°	28	43	51	52	51	38
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	

TEST NUMBER: P563127

CATALOG NUMBER: SQ4-PC3-150U-075D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1386.3	1374.3	1378.1	1375.0	1370.0
5°	1383.2	1369.5	1374.3	1370.5	1369.2
7.5°	1373.3	1359.6	1365.9	1363.3	1362.1
10°	1364.1	1350.4	1357.7	1355.1	1353.9
12.5°	1351.9	1339.1	1347.5	1345.0	1344.7
15°	1330.9	1319.7	1330.9	1330.9	1329.6
17.5°	1304.6	1294.4	1306.4	1307.2	1306.4
20°	1286.3	1275.0	1290.1	1288.8	1290.1
22.5°	1263.8	1254.6	1270.7	1267.4	1268.7
25°	1228.8	1220.1	1237.8	1233.9	1233.9
27.5°	1187.5	1181.3	1200.5	1196.4	1196.4
30°	1159.9	1153.7	1174.0	1168.9	1168.9
32.5°	1129.3	1125.1	1144.4	1138.2	1138.2
35°	1080.8	1078.3	1097.4	1089.8	1089.8
37.5°	1030.8	1028.6	1045.9	1036.6	1033.6
40°	994.0	992.8	1008.1	997.9	997.9
42.5°	957.3	956.0	969.3	957.0	957.0
45°	900.9	898.4	907.3	895.7	893.2
47.5°	839.4	836.9	842.5	829.9	828.7
50°	797.5	795.0	797.5	786.0	784.8
52.5°	754.7	750.2	750.6	739.1	738.8
55°	689.1	680.3	680.1	669.9	669.9
57.5°	619.7	608.2	609.2	600.5	599.2
60°	571.7	559.2	560.2	552.5	551.3
62.5°	524.7	510.2	513.2	504.5	504.3
65°	446.6	436.6	437.7	433.9	433.9
67.5°	371.6	362.4	369.0	366.0	365.7
70°	316.5	310.2	319.0	319.0	317.7
72.5°	265.4	265.2	276.1	276.2	276.9
75°	192.7	201.4	213.1	214.4	214.4
77.5°	128.6	144.1	157.0	157.5	157.2
80°	91.9	109.3	121.2	123.7	122.5
82.5°	62.3	80.7	90.6	93.1	91.9
85°	28.1	43.0	51.0	52.3	51.0
87.5°	8.7	18.7	23.8	24.0	21.8
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



TEST NUMBER: P563127

CATALOG NUMBER: SQ4-PC3-150U-075D-940-1D-UNV-STD-W-6

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)