

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: P563119

Luminaire Tested: **SQ4-PC3-150U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563119
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

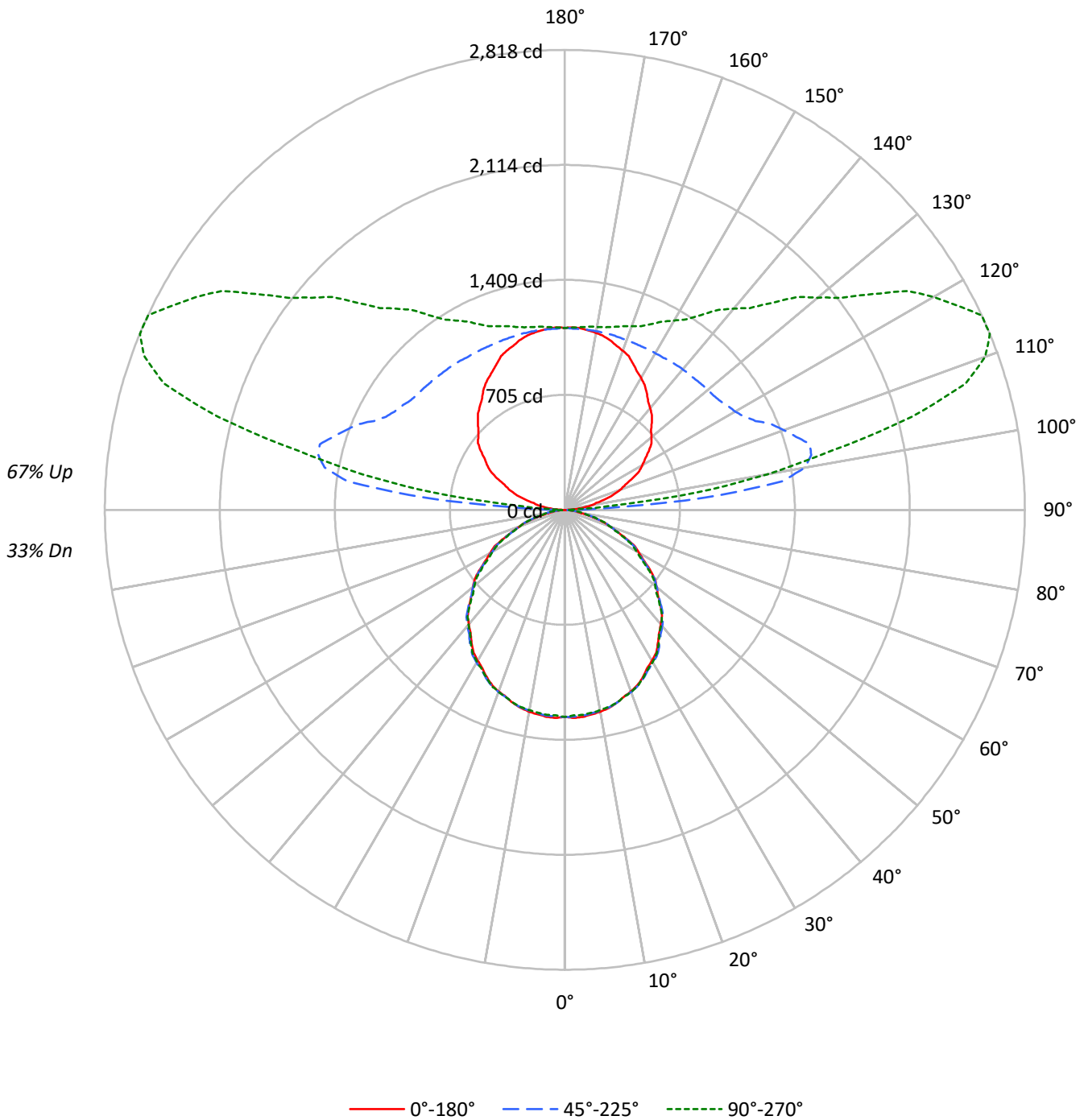
Lumens per Lamp: N/A
Luminaire Lumens: 10654.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P563119
CATALOG NUMBER: SQ4-PC3-150U-075D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P563119

CATALOG NUMBER: SQ4-PC3-150U-075D-930-1D-UNV-STD-W-6

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°	7803	7803	7803
5°	7862	7811	7782
10°	7843	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7676	7733	7708
30°	7583	7675	7641
35°	7470	7585	7532
40°	7347	7450	7375
45°	7214	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6344	6242
65°	5983	5864	5813
70°	5239	5282	5260
75°	4216	4663	4689
80°	2997	3953	3995
85°	1821	3317	3317



TEST NUMBER: P563119

CATALOG NUMBER: SQ4-PC3-150U-075D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.1
10°-20°	344.5	3.2
20°-30°	521.7	4.9
30°-40°	625.5	5.9
40°-50°	637.8	6.0
50°-60°	556.8	5.2
60°-70°	398.6	3.7
70°-80°	205.3	1.9
80°-90°	54.2	0.5
90°-100°	518.3	4.9
100°-110°	1401.4	13.2
110°-120°	1473.3	13.8
120°-130°	1196.7	11.2
130°-140°	938.7	8.8
140°-150°	720.5	6.8
150°-160°	518.2	4.9
160°-170°	316.5	3.0
170°-180°	106.7	1.0
0°-30°	986.3	9.3
0°-40°	1611.8	15.1
0°-60°	2806.4	26.3
0°-90°	3464.5	32.5
90°-120°	3393.0	31.8
90°-150°	6249.0	58.6
90°-180°	7190.0	67.5
0°-180°	10654.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1273	1261	1265	1262	1260	121
15°	1225	1215	1225	1225	1224	345
25°	1131	1123	1139	1136	1136	521
35°	995	993	1010	1003	1003	622
45°	829	827	835	824	822	638
55°	634	626	626	617	617	565
65°	411	402	403	399	399	407
75°	177	185	196	197	197	192
85°	26	40	47	48	47	35
90°	2	7	16	17	16	6
95°	80	282	862	446	265	84
105°	260	402	1555	2293	2199	274
115°	459	561	1289	2496	2818	453
125°	628	719	1162	1961	2304	560
135°	753	842	1131	1583	1792	582
145°	875	941	1115	1355	1459	547
155°	988	1027	1106	1216	1256	456
165°	1076	1086	1110	1154	1160	303
175°	1116	1115	1112	1126	1124	106
180°	1115	1115	1115	1115	1115	

TEST NUMBER: P563119

CATALOG NUMBER: SQ4-PC3-150U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1276.1	1265.1	1268.6	1265.7	1261.1
5°	1273.3	1260.6	1265.1	1261.5	1260.4
7.5°	1264.1	1251.5	1257.3	1254.9	1253.8
10°	1255.7	1243.0	1249.8	1247.4	1246.3
12.5°	1244.4	1232.7	1240.4	1238.0	1237.8
15°	1225.1	1214.8	1225.1	1225.1	1223.9
17.5°	1200.9	1191.5	1202.6	1203.3	1202.6
20°	1184.0	1173.7	1187.5	1186.4	1187.5
22.5°	1163.3	1154.8	1169.7	1166.6	1167.8
25°	1131.1	1123.1	1139.4	1135.8	1135.8
27.5°	1093.1	1087.3	1105.1	1101.3	1101.3
30°	1067.7	1062.0	1080.6	1075.9	1075.9
32.5°	1039.5	1035.6	1053.4	1047.8	1047.8
35°	994.9	992.6	1010.2	1003.1	1003.1
37.5°	948.8	946.8	962.7	954.2	951.4
40°	915.0	913.9	927.9	918.5	918.5
42.5°	881.2	880.0	892.2	881.0	881.0
45°	829.3	827.0	835.1	824.5	822.2
47.5°	772.7	770.4	775.5	763.9	762.8
50°	734.1	731.8	734.1	723.5	722.4
52.5°	694.7	690.5	690.9	680.3	680.1
55°	634.3	626.2	626.1	616.7	616.7
57.5°	570.4	559.8	560.8	552.7	551.6
60°	526.2	514.7	515.7	508.6	507.4
62.5°	483.0	469.7	472.4	464.4	464.2
65°	411.1	401.9	402.9	399.4	399.4
67.5°	342.0	333.5	339.7	336.9	336.6
70°	291.3	285.6	293.7	293.6	292.5
72.5°	244.3	244.1	254.2	254.2	254.9
75°	177.4	185.4	196.2	197.3	197.3
77.5°	118.4	132.6	144.5	144.9	144.7
80°	84.6	100.7	111.6	113.9	112.8
82.5°	57.3	74.3	83.4	85.7	84.6
85°	25.8	39.6	47.0	48.1	47.0
87.5°	8.0	17.2	21.9	22.1	20.0
90°	2.4	7.1	15.6	16.8	15.6
92.5°	34.1	124.2	245.1	106.4	77.1
95°	80.4	282.3	861.9	446.1	265.3
97.5°	129.2	323.8	1343.6	1111.9	816.6
100°	165.7	340.6	1493.4	1557.4	1259.3
102.5°	199.3	363.8	1546.2	1895.3	1672.3
105°	260.5	402.5	1554.6	2293.2	2199.3
107.5°	317.2	446.8	1486.7	2541.4	2572.6
110°	361.3	478.7	1426.2	2608.0	2740.7



TEST NUMBER: P563119

CATALOG NUMBER: SQ4-PC3-150U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	400.7	510.6	1370.5	2594.7	2817.5
115°	458.6	560.7	1289.3	2495.9	2817.5
117.5°	515.2	611.0	1235.8	2344.9	2709.5
120°	549.8	643.7	1204.1	2236.5	2608.6
122.5°	582.5	674.5	1184.9	2120.4	2495.3
125°	627.8	719.4	1162.1	1961.0	2303.7
127.5°	669.6	759.5	1148.6	1830.9	2132.3
130°	692.7	785.4	1142.9	1750.5	2022.8
132.5°	716.7	808.5	1137.1	1678.0	1928.7
135°	752.7	841.9	1130.8	1583.4	1792.3
137.5°	789.0	873.2	1125.6	1506.6	1676.8
140°	813.9	892.6	1123.6	1457.2	1608.6
142.5°	837.9	911.9	1119.8	1412.6	1545.3
145°	875.1	940.9	1115.2	1355.3	1458.6
147.5°	909.0	967.2	1110.0	1303.4	1382.7
150°	934.0	985.6	1108.0	1275.1	1338.5
152.5°	957.0	1002.1	1107.1	1249.0	1301.1
155°	988.0	1026.7	1105.6	1215.8	1255.7
157.5°	1020.2	1047.2	1105.9	1192.7	1219.0
160°	1038.4	1060.7	1106.8	1178.1	1196.9
162.5°	1052.8	1071.4	1107.8	1166.5	1180.5
165°	1075.6	1086.2	1110.4	1153.8	1159.7
167.5°	1091.2	1098.5	1110.7	1142.9	1145.7
170°	1100.8	1104.4	1111.6	1138.1	1138.1
172.5°	1108.5	1109.2	1111.6	1132.3	1131.3
175°	1116.4	1115.3	1111.6	1126.0	1123.6
177.5°	1119.1	1116.3	1111.4	1120.9	1118.1
180°	1115.2	1115.2	1115.2	1115.2	1115.2

(END OF REPORT)