

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: P563636

Luminaire Tested: **SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563636
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

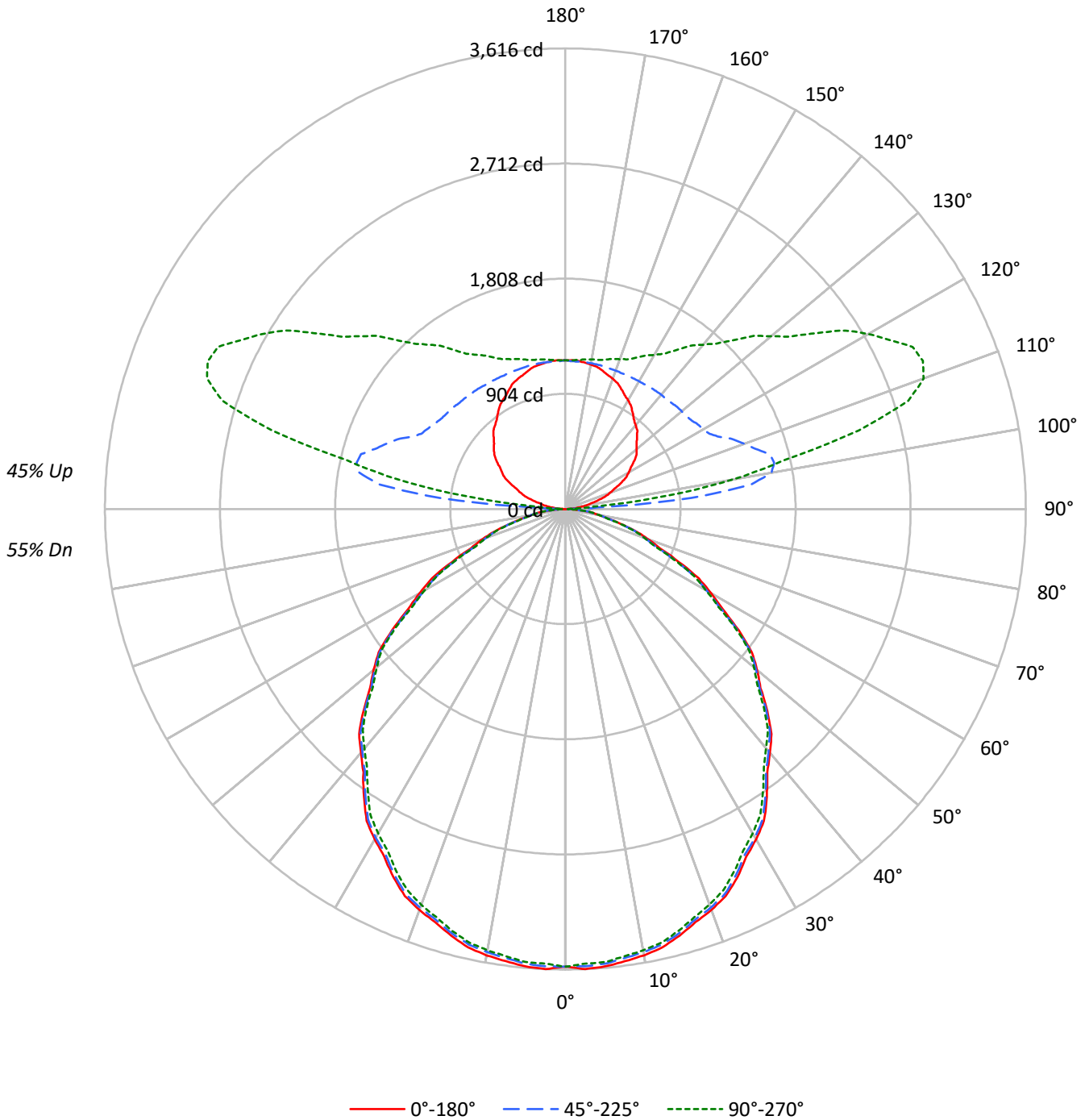
Lumens per Lamp: N/A
Luminaire Lumens: 16781.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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: P563636
CATALOG NUMBER: SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8

Luminous Intensity Polar Plot





TEST NUMBER: P563636

CATALOG NUMBER: SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52	47
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29
5	69	58	50	44	64	54	47	41	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	28	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	22	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	23	20	24	21	18	16
10	48	36	28	24	44	34	27	23	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16596	16537
10°	16669	16551	16477
15°	16559	16469	16378
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13196	13094
60°	12174	11825	11767
65°	10725	10278	10244
70°	9259	8878	8878
75°	7971	7858	7746
80°	7027	7112	6944
85°	5499	6002	6002



TEST NUMBER: P563636

CATALOG NUMBER: SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	2.0
10°-20°	970.2	5.8
20°-30°	1453.2	8.7
30°-40°	1704.5	10.2
40°-50°	1709.8	10.2
50°-60°	1458.6	8.7
60°-70°	951.3	5.7
70°-80°	477.3	2.8
80°-90°	134.5	0.8
90°-100°	546.5	3.3
100°-110°	1508.6	9.0
110°-120°	1555.9	9.3
120°-130°	1250.3	7.5
130°-140°	982.6	5.9
140°-150°	753.6	4.5
150°-160°	541.6	3.2
160°-170°	331.2	2.0
170°-180°	111.7	0.7
0°-30°	2763.1	16.5
0°-40°	4467.6	26.6
0°-60°	7636.0	45.5
0°-90°	9199.1	54.8
90°-120°	3611.0	21.5
90°-150°	6597.5	39.3
90°-180°	7582.0	45.2
0°-180°	16781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3593	3593	3593	3593	3593	
5°	3606	3572	3584	3571	3571	342
15°	3467	3433	3448	3436	3429	978
25°	3193	3156	3171	3143	3140	1468
35°	2759	2731	2740	2708	2705	1723
45°	2242	2227	2226	2204	2204	1726
55°	1663	1657	1641	1631	1628	1478
65°	982	964	942	935	938	981
75°	447	447	441	438	435	485
85°	104	113	113	113	113	122
90°	4	7	15	17	19	10
95°	80	296	991	408	265	86
105°	269	415	1660	2534	2386	286
115°	482	582	1337	2646	3010	473
125°	661	752	1212	2051	2407	588
135°	795	881	1178	1661	1873	615
145°	922	986	1163	1414	1522	577
155°	1040	1075	1154	1269	1309	479
165°	1126	1140	1159	1204	1214	317
175°	1167	1169	1161	1178	1174	111
180°	1167	1167	1167	1167	1167	

TEST NUMBER: P563636

CATALOG NUMBER: SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3593.2	3593.2	3593.2	3593.2	3593.2
2.5°	3615.9	3586.3	3593.2	3587.8	3573.0
5°	3605.8	3571.9	3583.8	3571.2	3571.2
7.5°	3581.2	3544.3	3556.0	3543.4	3542.8
10°	3558.6	3521.6	3533.4	3520.7	3517.6
12.5°	3525.8	3488.9	3503.1	3488.0	3487.4
15°	3467.2	3433.4	3448.3	3435.6	3429.4
17.5°	3401.1	3364.2	3382.2	3364.5	3362.1
20°	3350.7	3313.8	3331.8	3306.6	3306.6
22.5°	3290.3	3253.3	3273.9	3241.1	3241.1
25°	3193.3	3156.3	3171.2	3142.8	3139.7
27.5°	3078.0	3041.7	3057.2	3025.1	3024.5
30°	2994.9	2961.0	2979.1	2944.4	2941.3
32.5°	2904.2	2872.8	2885.9	2851.2	2848.1
35°	2758.7	2731.0	2739.8	2708.2	2705.1
37.5°	2605.6	2577.3	2587.4	2560.2	2559.0
40°	2497.3	2478.8	2481.5	2459.4	2453.2
42.5°	2396.5	2375.6	2378.3	2356.2	2354.9
45°	2242.2	2226.8	2226.5	2204.4	2204.4
47.5°	2078.5	2066.8	2063.3	2045.1	2044.4
50°	1965.1	1955.8	1952.5	1936.7	1933.6
52.5°	1846.7	1842.4	1831.6	1818.3	1817.7
55°	1662.8	1656.6	1640.7	1631.2	1628.1
57.5°	1463.1	1450.8	1432.9	1419.1	1421.5
60°	1319.5	1307.2	1281.7	1275.4	1275.4
62.5°	1180.9	1166.2	1140.6	1131.9	1136.9
65°	982.5	964.1	941.6	935.4	938.5
67.5°	802.4	785.8	761.5	761.4	759.0
70°	686.5	677.3	658.2	658.2	658.2
72.5°	583.2	578.9	565.0	564.9	562.4
75°	447.2	447.2	440.9	437.7	434.6
77.5°	335.1	336.3	333.2	329.9	324.4
80°	264.5	270.7	267.7	264.5	261.4
82.5°	199.0	205.2	204.7	199.0	198.4
85°	103.9	113.2	113.4	113.4	113.4
87.5°	28.5	39.0	43.3	43.7	46.6
90°	3.7	7.4	14.9	16.8	18.7
92.5°	33.6	139.5	249.4	91.0	70.9
95°	80.3	295.7	991.4	407.5	265.1
97.5°	132.9	331.2	1468.6	1130.7	818.9
100°	171.8	352.5	1644.9	1656.5	1346.1
102.5°	209.1	376.7	1679.2	2046.7	1752.4
105°	268.9	414.9	1659.8	2534.0	2386.1
107.5°	332.3	462.3	1567.2	2768.9	2823.0
110°	377.1	494.0	1495.5	2819.5	2994.7

TEST NUMBER: P563636

CATALOG NUMBER: SQ4-PP3-100U-125D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	417.5	529.9	1428.3	2779.6	3038.1
115°	481.7	582.1	1336.8	2646.4	3009.7
117.5°	537.7	637.8	1276.7	2459.0	2872.3
120°	575.1	673.6	1252.8	2332.1	2748.3
122.5°	610.9	705.1	1233.4	2213.6	2607.9
125°	660.9	752.2	1211.7	2050.6	2406.6
127.5°	703.5	794.8	1199.0	1912.9	2219.9
130°	731.9	823.2	1193.0	1828.6	2107.9
132.5°	758.8	845.7	1187.1	1757.8	2010.8
135°	795.4	881.2	1178.1	1660.9	1872.7
137.5°	836.4	914.6	1173.6	1579.5	1760.3
140°	858.8	935.5	1170.6	1525.3	1684.1
142.5°	884.2	955.1	1167.7	1477.0	1616.9
145°	922.3	986.2	1163.2	1413.9	1521.6
147.5°	958.9	1014.8	1159.1	1360.7	1444.3
150°	985.8	1031.4	1157.6	1329.0	1396.6
152.5°	1006.7	1049.4	1156.1	1301.9	1357.7
155°	1039.9	1074.6	1153.8	1268.6	1308.8
157.5°	1070.6	1097.2	1154.2	1244.5	1271.8
160°	1088.5	1112.2	1155.7	1230.8	1250.9
162.5°	1103.4	1124.2	1157.2	1218.8	1234.5
165°	1125.8	1140.4	1159.4	1204.5	1213.6
167.5°	1143.0	1151.8	1161.3	1195.7	1198.6
170°	1152.0	1159.3	1161.3	1191.2	1191.2
172.5°	1159.4	1163.8	1161.3	1185.2	1183.7
175°	1166.9	1168.7	1161.3	1178.0	1174.4
177.5°	1169.9	1168.4	1160.9	1171.3	1168.4
180°	1166.9	1166.9	1166.9	1166.9	1166.9

(END OF REPORT)