

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: P562068

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562068
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

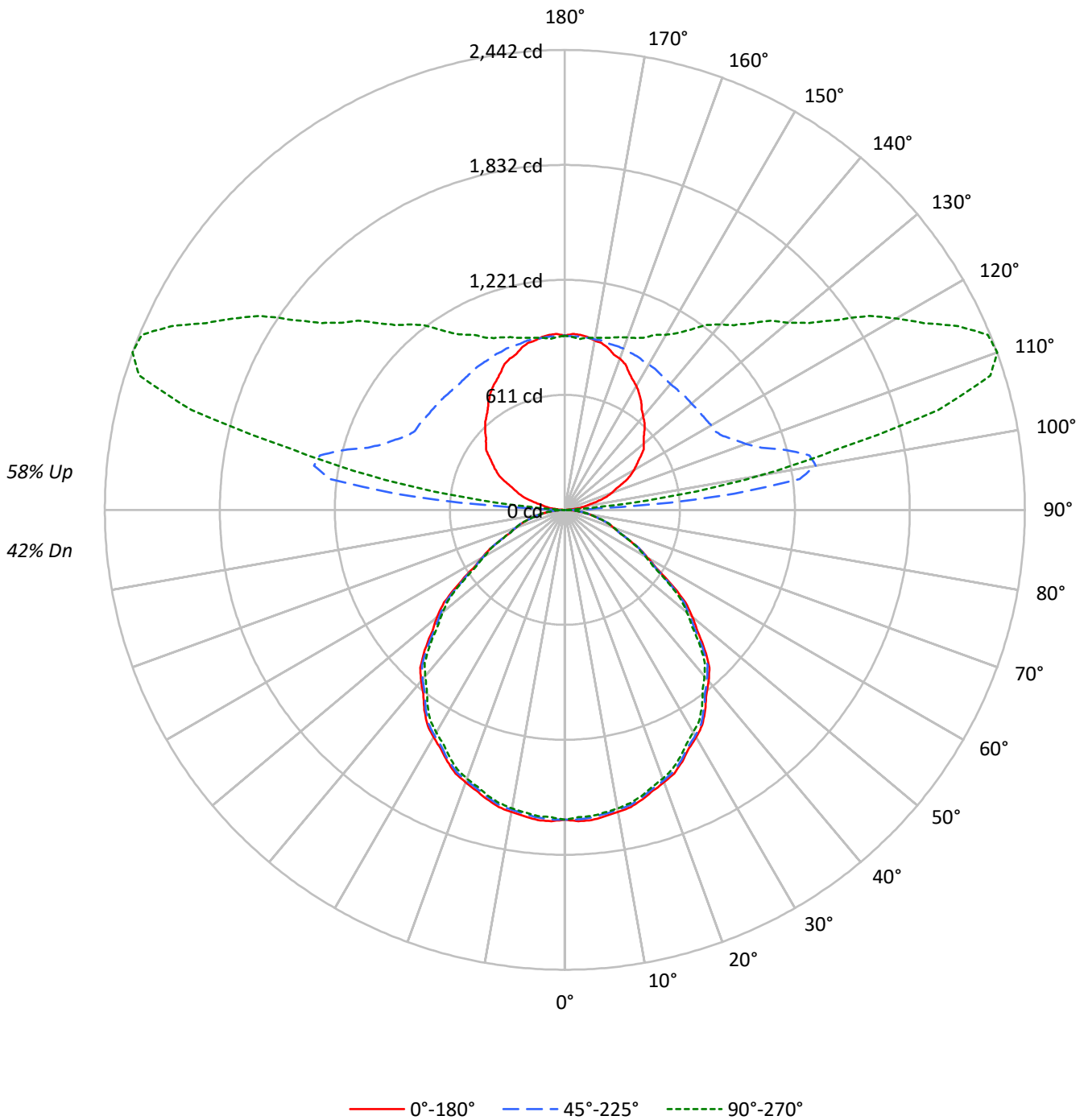
Lumens per Lamp: N/A
Luminaire Lumens: 9857.7 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15177	15177	15177
5°	15314	15195	15117
10°	15265	15159	15080
15°	15199	15103	15022
20°	15121	15024	14913
25°	15015	14915	14742
30°	14853	14748	14537
35°	14634	14506	14299
40°	14300	14147	13890
45°	13717	13477	13200
50°	12690	12386	12142
55°	11076	10825	10597
60°	9333	9256	9073
65°	8073	8104	8043
70°	7416	7453	7453
75°	7122	7122	7172
80°	6700	6774	6700
85°	5399	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.6
10°-20°	445.1	4.5
20°-30°	671.3	6.8
30°-40°	799.9	8.1
40°-50°	788.6	8.0
50°-60°	602.7	6.1
60°-70°	373.0	3.8
70°-80°	211.9	2.1
80°-90°	64.4	0.7
90°-100°	421.5	4.3
100°-110°	1199.2	12.2
110°-120°	1149.0	11.7
120°-130°	909.4	9.2
130°-140°	729.9	7.4
140°-150°	571.4	5.8
150°-160°	418.1	4.2
160°-170°	259.0	2.6
170°-180°	87.9	0.9
0°-30°	1271.9	12.9
0°-40°	2071.8	21.0
0°-60°	3463.1	35.1
0°-90°	4112.3	41.7
90°-120°	2769.7	28.1
90°-150°	4980.4	50.5
90°-180°	5745.0	58.3
0°-180°	9857.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1654	1636	1641	1635	1632	157
15°	1591	1574	1581	1576	1573	449
25°	1475	1457	1465	1449	1448	679
35°	1299	1284	1288	1271	1270	811
45°	1051	1038	1033	1014	1012	805
55°	689	678	673	662	659	617
65°	370	367	371	368	368	375
75°	200	200	200	201	201	211
85°	51	54	57	57	57	59
90°	0	0	0	0	0	4
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.0	1645.0	1645.0	1645.0	1645.0
2.5°	1655.2	1640.8	1645.0	1641.4	1633.7
5°	1653.5	1635.5	1640.7	1635.0	1632.2
7.5°	1640.7	1623.0	1628.3	1622.6	1620.9
10°	1629.4	1612.8	1618.1	1612.3	1609.6
12.5°	1616.9	1599.2	1605.6	1598.7	1596.0
15°	1591.2	1574.5	1581.2	1575.5	1572.7
17.5°	1562.8	1545.1	1551.8	1545.2	1541.6
20°	1540.1	1523.5	1530.2	1520.3	1518.9
22.5°	1515.2	1498.6	1505.3	1492.0	1491.7
25°	1475.0	1457.0	1465.1	1449.4	1448.1
27.5°	1427.1	1410.5	1417.2	1401.3	1399.6
30°	1394.2	1377.6	1384.3	1367.2	1364.5
32.5°	1356.8	1341.3	1346.9	1329.8	1328.2
35°	1299.3	1284.0	1287.9	1270.9	1269.5
37.5°	1233.8	1220.0	1222.2	1203.5	1202.1
40°	1187.3	1173.5	1174.6	1154.7	1153.3
42.5°	1136.3	1122.5	1121.3	1101.5	1100.1
45°	1051.3	1037.5	1032.9	1014.4	1011.7
47.5°	954.4	940.6	932.0	917.0	915.0
50°	884.1	870.3	862.9	850.0	845.9
52.5°	808.2	794.3	788.1	776.4	772.2
55°	688.6	677.5	673.0	661.6	658.8
57.5°	575.0	567.5	566.2	555.1	554.0
60°	505.8	501.7	501.6	491.7	491.7
62.5°	446.9	443.8	446.0	439.5	438.4
65°	369.8	367.0	371.2	368.4	368.4
67.5°	308.9	308.9	311.4	310.3	310.3
70°	274.9	274.9	276.3	276.3	276.3
72.5°	244.3	243.2	246.8	246.8	245.7
75°	199.8	199.8	199.8	201.2	201.2
77.5°	155.6	155.9	157.0	156.7	155.6
80°	126.1	127.5	127.5	126.1	126.1
82.5°	96.6	98.0	98.0	97.7	96.6
85°	51.0	53.8	56.7	56.7	56.7
87.5°	14.7	19.2	22.7	22.6	21.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)