

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: P561860

Luminaire Tested: **SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561860
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-PR1-050U-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

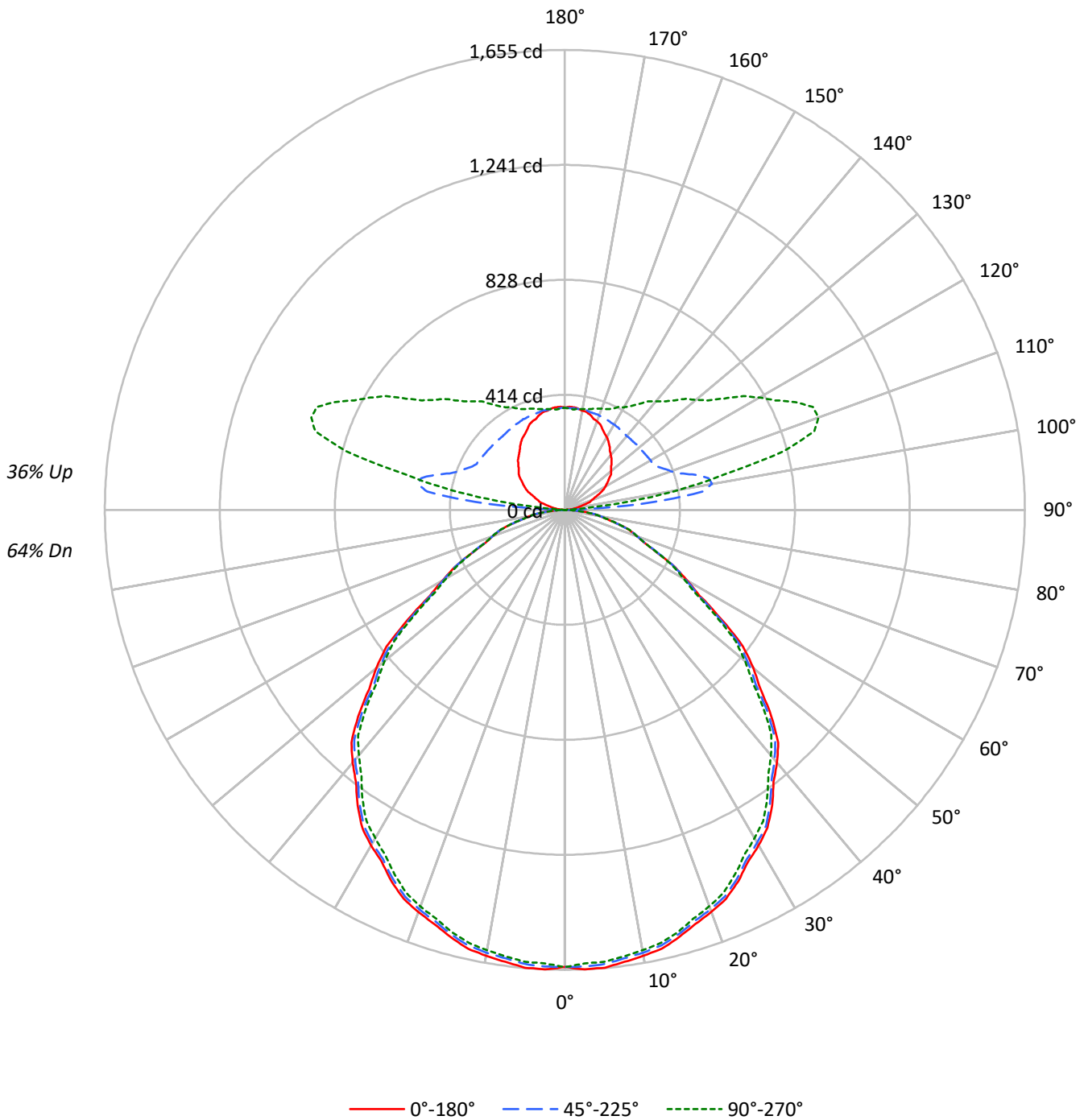
Lumens per Lamp: N/A
Luminaire Lumens: 6395.8 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 58.1
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59	55
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	50	47
3	85	75	68	62	79	71	65	59	63	58	54	56	52	48	49	46	43	40
4	78	67	59	53	73	63	56	51	56	51	46	50	45	42	44	40	38	34
5	72	60	52	46	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	36	32	29	27
7	61	49	41	35	57	46	39	34	42	36	31	37	32	29	33	29	26	24
8	57	44	37	31	53	42	35	30	38	32	28	34	29	26	30	26	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	27	23	28	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

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	2.4
10°-20°	445.1	7.0
20°-30°	671.3	10.5
30°-40°	799.9	12.5
40°-50°	788.6	12.3
50°-60°	602.7	9.4
60°-70°	373.0	5.8
70°-80°	211.9	3.3
80°-90°	64.4	1.0
90°-100°	167.5	2.6
100°-110°	476.6	7.5
110°-120°	456.7	7.1
120°-130°	361.4	5.7
130°-140°	290.1	4.5
140°-150°	227.1	3.6
150°-160°	166.2	2.6
160°-170°	102.9	1.6
170°-180°	34.9	0.5
0°-30°	1271.9	19.9
0°-40°	2071.8	32.4
0°-60°	3463.1	54.1
0°-90°	4112.3	64.3
90°-120°	1100.8	17.2
90°-150°	1979.5	30.9
90°-180°	2283.0	35.7
0°-180°	6395.8	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	3
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

TEST NUMBER: P561860

CATALOG NUMBER: SQ4-PR1-050U-100D-92765-1D-UNV-STD-W-4 (5000K)

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°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)