

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: P564555

Luminaire Tested: **SQ4-PW1-025U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564555
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

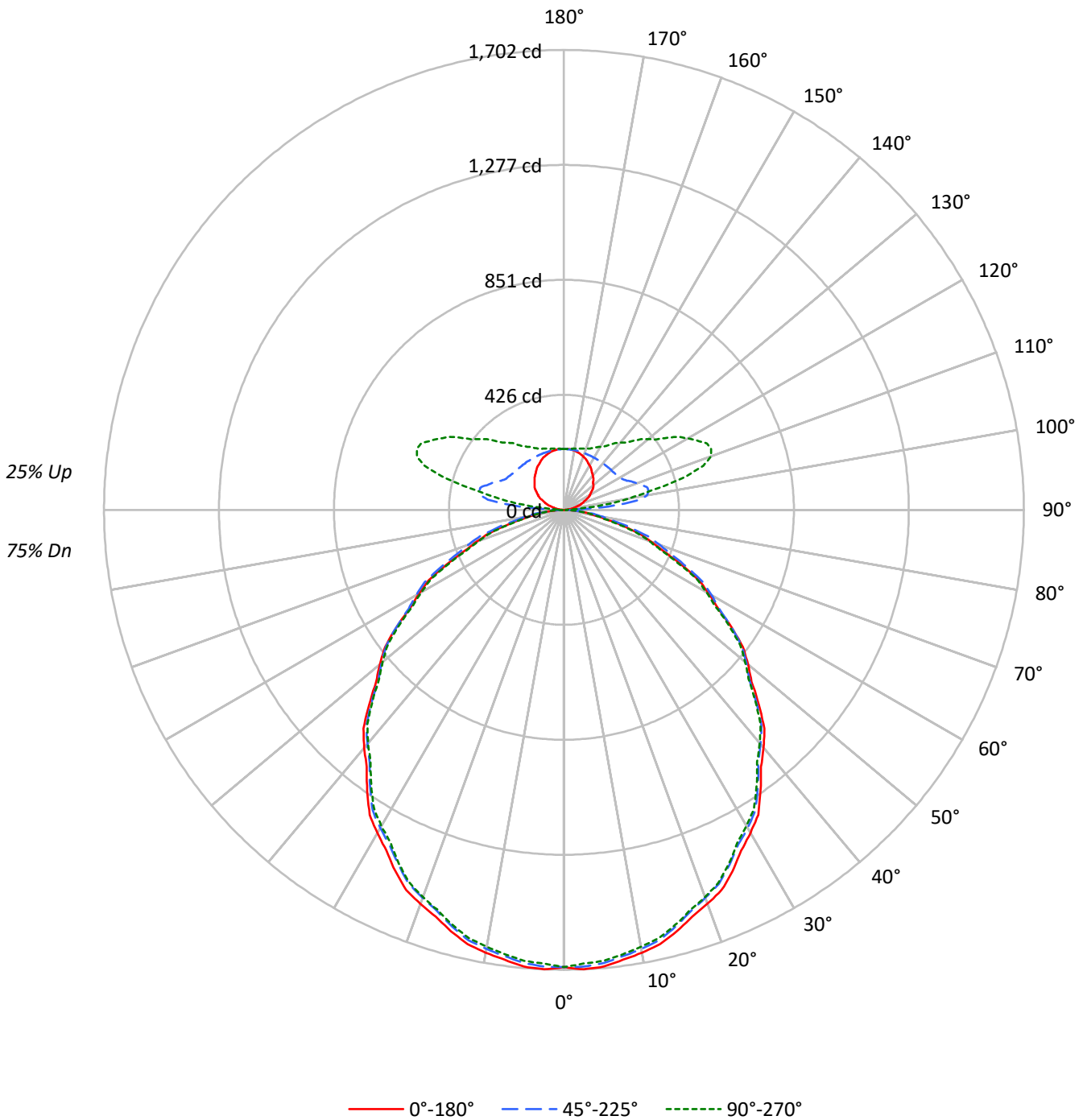
Lumens per Lamp: N/A
Luminaire Lumens: 5770.1 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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



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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	50	30	10	0	
RCR																						
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53				
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39				
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34				
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30				
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26				
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23				
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21				
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10408	10408	10408
5°	10476	10393	10347
10°	10392	10309	10252
15°	10282	10168	10130
20°	10159	10003	9983
25°	10017	9835	9805
30°	9805	9657	9594
35°	9527	9393	9337
40°	9230	9086	9051
45°	8871	8754	8715
50°	8503	8432	8375
55°	8106	8106	7978
60°	7611	7759	7483
65°	6966	7312	6792
70°	6140	6730	5980
75°	5245	6024	5102
80°	4066	5069	4119
85°	2632	3896	3472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	2.8
10°-20°	449.9	7.8
20°-30°	667.3	11.6
30°-40°	780.8	13.5
40°-50°	777.4	13.5
50°-60°	671.3	11.6
60°-70°	483.2	8.4
70°-80°	253.4	4.4
80°-90°	64.0	1.1
90°-100°	110.0	1.9
100°-110°	289.3	5.0
110°-120°	300.0	5.2
120°-130°	240.6	4.2
130°-140°	188.8	3.3
140°-150°	144.9	2.5
150°-160°	104.4	1.8
160°-170°	63.9	1.1
170°-180°	21.6	0.4
0°-30°	1276.6	22.1
0°-40°	2057.4	35.7
0°-60°	3506.1	60.8
0°-90°	4306.7	74.6
90°-120°	699.3	12.1
90°-150°	1273.6	22.1
90°-180°	1463.0	25.4
0°-180°	5770.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1697	1678	1683	1679	1676	161
15°	1615	1594	1597	1594	1591	455
25°	1476	1451	1449	1440	1445	679
35°	1269	1251	1251	1239	1244	793
45°	1020	1011	1006	1003	1002	787
55°	756	754	756	745	744	674
65°	479	493	502	483	467	474
75°	221	241	254	237	215	236
85°	37	49	55	52	49	49
90°	1	4	12	6	6	3
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

TEST NUMBER: P564555

CATALOG NUMBER: SQ4-PW1-025U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1701.8	1687.8	1692.2	1688.5	1680.3
5°	1696.7	1677.7	1683.3	1678.7	1675.8
7.5°	1679.4	1661.9	1666.0	1661.2	1659.4
10°	1663.9	1646.4	1650.5	1644.4	1641.5
12.5°	1646.0	1627.3	1631.4	1625.4	1623.6
15°	1614.7	1594.3	1596.8	1593.8	1590.8
17.5°	1578.3	1557.6	1558.0	1553.3	1552.7
20°	1552.1	1530.2	1528.2	1522.3	1525.2
22.5°	1523.5	1500.4	1498.4	1490.1	1494.2
25°	1476.0	1451.3	1449.2	1440.4	1444.7
27.5°	1421.2	1396.7	1396.7	1384.3	1389.0
30°	1380.6	1357.3	1359.7	1345.0	1350.8
32.5°	1337.7	1316.7	1318.0	1303.2	1309.1
35°	1268.8	1251.3	1250.9	1239.1	1243.5
37.5°	1198.4	1183.0	1180.5	1173.7	1174.9
40°	1149.5	1136.4	1131.6	1127.2	1127.2
42.5°	1098.2	1086.3	1081.5	1078.2	1077.1
45°	1019.8	1011.1	1006.4	1003.4	1001.9
47.5°	942.3	934.1	930.1	927.9	926.5
50°	888.6	882.8	881.2	876.6	875.2
52.5°	834.9	831.4	829.9	824.2	822.7
55°	755.9	754.5	755.9	745.4	744.0
57.5°	673.6	675.9	680.8	666.7	663.2
60°	618.7	624.6	630.7	614.1	608.3
62.5°	562.7	572.0	580.6	561.6	553.4
65°	478.6	493.2	502.4	482.7	466.7
67.5°	397.5	415.6	426.7	405.4	387.3
70°	341.4	361.8	374.2	352.9	332.5
72.5°	292.5	315.3	325.3	305.2	284.8
75°	220.7	241.1	253.5	236.6	214.7
77.5°	156.5	175.8	186.1	171.3	153.3
80°	114.8	135.2	143.1	130.9	116.3
82.5°	81.4	98.3	103.8	96.4	86.5
85°	37.3	48.9	55.2	52.1	49.2
87.5°	9.8	18.6	25.0	23.8	25.0
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9

TEST NUMBER: P564555

CATALOG NUMBER: SQ4-PW1-025U-075D-840-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)