

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: P564614

Luminaire Tested: **SQ4-PW1-025U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564614
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-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

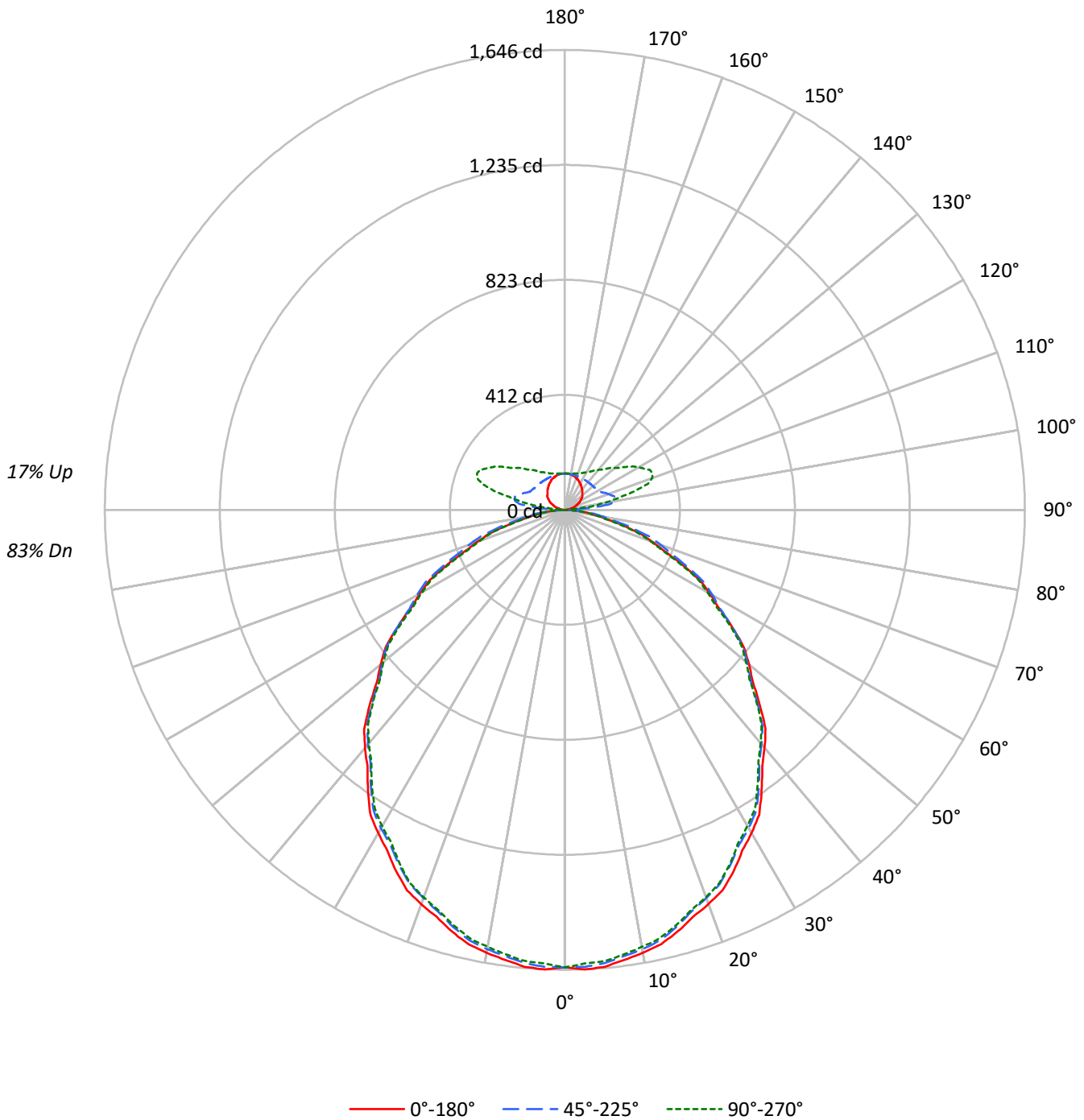
Lumens per Lamp: N/A
Luminaire Lumens: 5009.6 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	70
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	49	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	50	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	39	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15082	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13825	13631	13550
40°	13394	13186	13134
45°	12873	12705	12647
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11260	10859
65°	10108	10612	9857
70°	8910	9768	8678
75°	7611	8741	7404
80°	5903	7359	5977
85°	3822	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.1
10°-20°	435.3	8.7
20°-30°	645.6	12.9
30°-40°	755.4	15.1
40°-50°	752.1	15.0
50°-60°	649.5	13.0
60°-70°	467.5	9.3
70°-80°	245.2	4.9
80°-90°	61.5	1.2
90°-100°	63.4	1.3
100°-110°	166.7	3.3
110°-120°	172.9	3.5
120°-130°	138.7	2.8
130°-140°	108.8	2.2
140°-150°	83.5	1.7
150°-160°	60.2	1.2
160°-170°	36.8	0.7
170°-180°	12.4	0.2
0°-30°	1235.0	24.7
0°-40°	1990.5	39.7
0°-60°	3392.0	67.7
0°-90°	4166.1	83.2
90°-120°	403.0	8.0
90°-150°	734.0	14.7
90°-180°	843.0	16.8
0°-180°	5009.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1642	1623	1628	1624	1621	155
15°	1562	1542	1545	1542	1539	440
25°	1428	1404	1402	1394	1398	657
35°	1228	1211	1210	1199	1203	767
45°	987	978	974	971	969	761
55°	731	730	731	721	720	653
65°	463	477	486	467	452	459
75°	214	233	245	229	208	229
85°	36	47	53	50	48	48
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.4	1632.9	1637.2	1633.5	1625.6
5°	1641.5	1623.2	1628.5	1624.1	1621.3
7.5°	1624.8	1607.9	1611.8	1607.1	1605.5
10°	1609.8	1592.9	1596.8	1591.0	1588.1
12.5°	1592.5	1574.4	1578.3	1572.5	1570.8
15°	1562.2	1542.4	1544.9	1541.9	1539.1
17.5°	1527.0	1507.0	1507.4	1502.7	1502.2
20°	1501.6	1480.4	1478.5	1472.8	1475.6
22.5°	1473.9	1451.6	1449.7	1441.7	1445.6
25°	1428.0	1404.1	1402.1	1393.5	1397.7
27.5°	1374.9	1351.3	1351.3	1339.3	1343.8
30°	1335.7	1313.1	1315.5	1301.2	1306.9
32.5°	1294.2	1273.9	1275.1	1260.8	1266.5
35°	1227.5	1210.6	1210.2	1198.8	1203.0
37.5°	1159.4	1144.5	1142.1	1135.5	1136.7
40°	1112.1	1099.4	1094.8	1090.5	1090.5
42.5°	1062.5	1050.9	1046.4	1043.2	1042.0
45°	986.6	978.2	973.7	970.7	969.3
47.5°	911.6	903.7	899.8	897.8	896.3
50°	859.7	854.1	852.5	848.1	846.7
52.5°	807.8	804.4	802.9	797.4	795.9
55°	731.3	729.9	731.3	721.2	719.8
57.5°	651.7	654.0	658.6	645.0	641.6
60°	598.6	604.3	610.2	594.2	588.5
62.5°	544.4	553.4	561.7	543.3	535.4
65°	463.0	477.1	486.1	467.0	451.5
67.5°	384.6	402.0	412.8	392.2	374.7
70°	330.3	350.1	362.1	341.4	321.7
72.5°	283.0	305.0	314.7	295.3	275.5
75°	213.5	233.2	245.2	228.9	207.7
77.5°	151.5	170.1	180.0	165.8	148.3
80°	111.1	130.8	138.5	126.6	112.5
82.5°	78.8	95.1	100.4	93.3	83.7
85°	36.1	47.3	53.4	50.4	47.6
87.5°	9.4	17.6	23.3	22.6	23.7
90°	0.8	2.5	6.7	3.3	3.3
92.5°	3.5	16.9	37.4	16.5	10.7
95°	8.3	32.8	109.3	56.3	38.4
97.5°	14.5	36.0	163.5	130.0	95.8
100°	19.2	38.8	180.2	182.6	141.8
102.5°	23.2	41.5	184.8	227.4	192.5
105°	30.0	45.5	184.3	279.8	261.1
107.5°	37.0	51.4	173.8	307.1	311.6
110°	41.7	54.8	165.2	314.1	333.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)