

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: P562330

Luminaire Tested: **SQ4-PW1-0U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562330
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PW1-0U-100D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

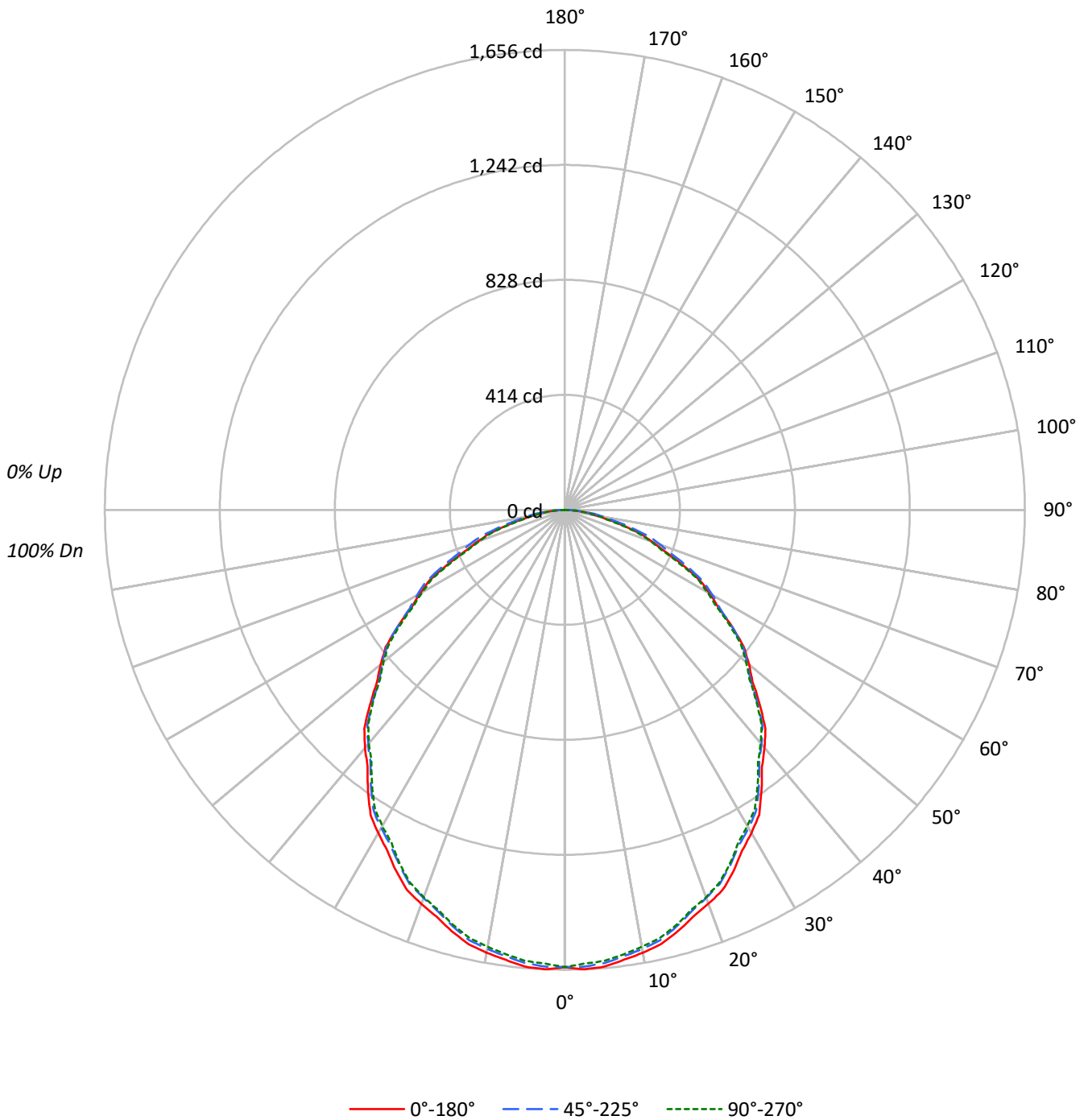
Lumens per Lamp: N/A
Luminaire Lumens: 4189.2 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.1
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15191	15191	15191
5°	15290	15168	15102
10°	15168	15045	14963
15°	15007	14840	14785
20°	14828	14600	14571
25°	14620	14355	14310
30°	14311	14095	14002
35°	13904	13708	13627
40°	13471	13262	13209
45°	12947	12776	12720
50°	12410	12307	12223
55°	11831	11831	11644
60°	11108	11322	10922
65°	10167	10673	9913
70°	8961	9822	8727
75°	7653	8791	7447
80°	5935	7401	6014
85°	3843	5685	5071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.7
10°-20°	437.7	10.4
20°-30°	649.3	15.5
30°-40°	759.8	18.1
40°-50°	756.4	18.1
50°-60°	653.2	15.6
60°-70°	470.2	11.2
70°-80°	246.5	5.9
80°-90°	61.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1242.1	29.6
0°-40°	2001.9	47.8
0°-60°	3411.4	81.4
0°-90°	4189.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1646	1646	1646	1646	1646	
5°	1651	1632	1638	1633	1631	156
15°	1571	1551	1554	1551	1548	443
25°	1436	1412	1410	1402	1406	660
35°	1234	1218	1217	1206	1210	772
45°	992	984	979	976	975	766
55°	736	734	736	725	724	656
65°	466	480	489	470	454	461
75°	215	235	247	230	209	230
85°	36	48	54	51	48	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1646.5	1646.5	1646.5	1646.5	1646.5
2.5°	1655.8	1642.2	1646.5	1642.9	1634.9
5°	1650.9	1632.4	1637.8	1633.4	1630.6
7.5°	1634.1	1617.0	1621.0	1616.3	1614.6
10°	1619.0	1602.0	1605.9	1600.0	1597.2
12.5°	1601.6	1583.4	1587.3	1581.5	1579.8
15°	1571.1	1551.2	1553.7	1550.7	1547.9
17.5°	1535.7	1515.6	1516.0	1511.3	1510.8
20°	1510.2	1488.9	1487.0	1481.2	1484.1
22.5°	1482.3	1459.9	1457.9	1449.9	1453.9
25°	1436.2	1412.1	1410.1	1401.5	1405.7
27.5°	1382.8	1359.0	1359.0	1346.9	1351.5
30°	1343.3	1320.6	1323.0	1308.7	1314.3
32.5°	1301.6	1281.1	1282.4	1268.0	1273.7
35°	1234.5	1217.5	1217.1	1205.6	1209.9
37.5°	1166.1	1151.0	1148.7	1142.0	1143.1
40°	1118.5	1105.7	1101.1	1096.7	1096.7
42.5°	1068.6	1056.9	1052.3	1049.1	1048.0
45°	992.3	983.8	979.2	976.3	974.9
47.5°	916.8	908.9	904.9	902.9	901.5
50°	864.6	858.9	857.4	853.0	851.6
52.5°	812.4	809.0	807.5	801.9	800.5
55°	735.5	734.1	735.5	725.3	723.9
57.5°	655.4	657.7	662.4	648.7	645.3
60°	602.0	607.7	613.6	597.6	591.9
62.5°	547.5	556.6	564.9	546.4	538.5
65°	465.7	479.9	488.9	469.7	454.1
67.5°	386.8	404.3	415.2	394.5	376.9
70°	332.2	352.1	364.1	343.4	323.5
72.5°	284.6	306.8	316.5	296.9	277.1
75°	214.7	234.6	246.6	230.2	208.9
77.5°	152.3	171.0	181.0	166.7	149.1
80°	111.7	131.6	139.3	127.3	113.2
82.5°	79.2	95.7	101.0	93.8	84.1
85°	36.3	47.6	53.7	50.7	47.9
87.5°	9.3	17.2	22.1	22.1	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)