

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: P562375

Luminaire Tested: **SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562375
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-100U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

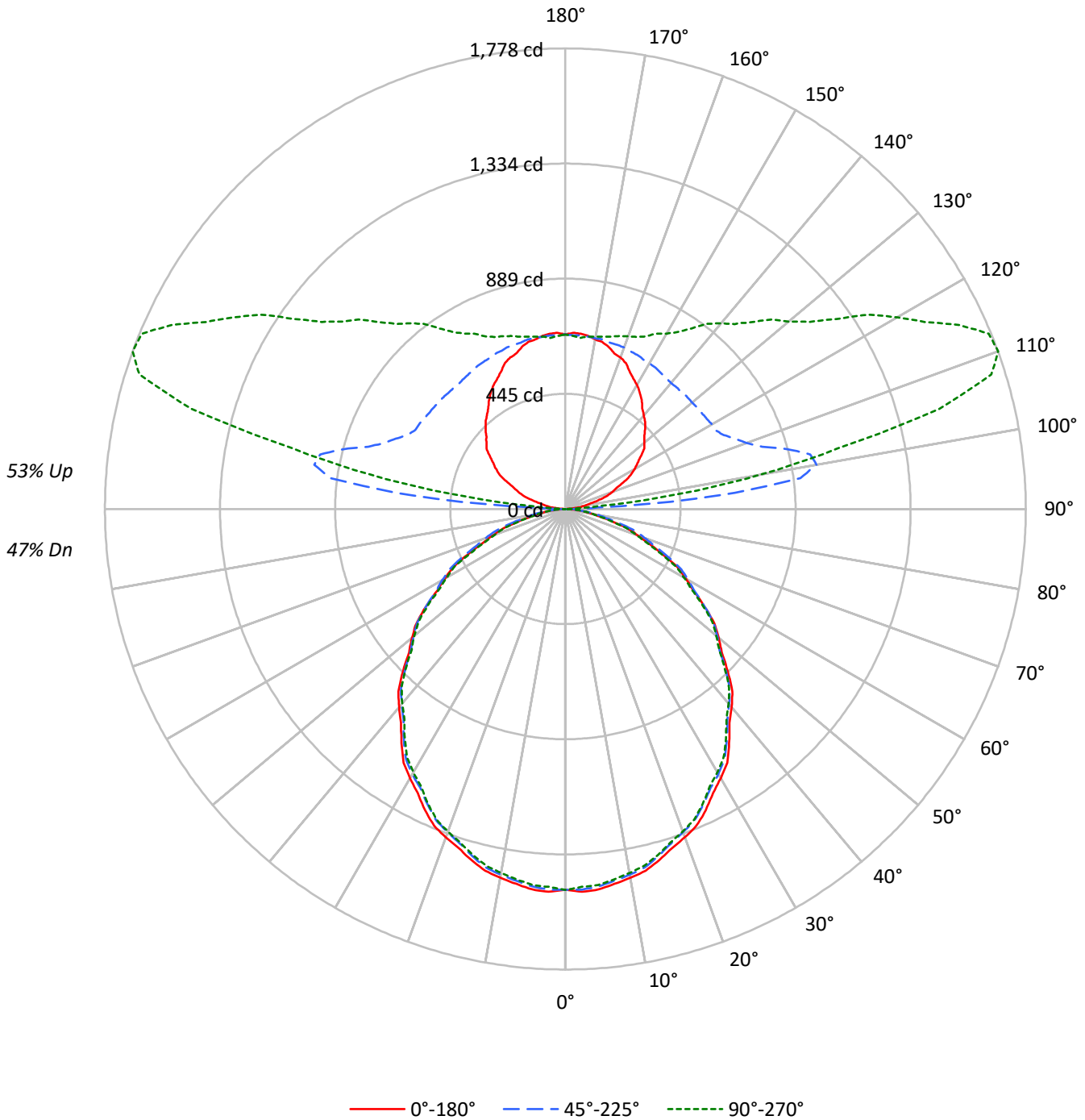
Lumens per Lamp: N/A
Luminaire Lumens: 7925.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.6
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	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	46	45	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	30	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	42	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	38	32	27	33	27	24	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13569	13569	13569
5°	13657	13549	13488
10°	13548	13438	13365
15°	13404	13256	13206
20°	13244	13041	13015
25°	13059	12822	12782
30°	12783	12589	12507
35°	12420	12244	12172
40°	12032	11845	11798
45°	11564	11412	11362
50°	11085	10992	10917
55°	10568	10568	10401
60°	9922	10114	9756
65°	9080	9534	8855
70°	8004	8772	7796
75°	6837	7853	6652
80°	5303	6610	5372
85°	3430	5071	4531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.7
10°-20°	391.0	4.9
20°-30°	580.0	7.3
30°-40°	678.6	8.6
40°-50°	675.6	8.5
50°-60°	583.4	7.4
60°-70°	419.9	5.3
70°-80°	220.2	2.8
80°-90°	54.6	0.7
90°-100°	306.9	3.9
100°-110°	873.2	11.0
110°-120°	836.6	10.6
120°-130°	662.1	8.4
130°-140°	531.5	6.7
140°-150°	416.1	5.3
150°-160°	304.4	3.8
160°-170°	188.6	2.4
170°-180°	64.0	0.8
0°-30°	1109.5	14.0
0°-40°	1788.1	22.6
0°-60°	3047.1	38.4
0°-90°	3741.8	47.2
90°-120°	2016.7	25.4
90°-150°	3626.3	45.8
90°-180°	4183.0	52.8
0°-180°	7925.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1475	1458	1463	1459	1456	140
15°	1403	1386	1388	1385	1383	396
25°	1283	1261	1260	1252	1256	590
35°	1103	1088	1087	1077	1081	689
45°	886	879	875	872	871	684
55°	657	656	657	648	647	586
65°	416	429	437	420	406	412
75°	192	210	220	206	187	206
85°	32	42	48	45	43	43
90°	0	0	0	0	0	3
95°	33	132	594	206	127	38
105°	136	206	890	1572	1494	144
115°	252	305	675	1429	1678	248
125°	356	395	644	1069	1278	319
135°	435	472	636	903	1020	336
145°	513	540	642	781	851	321
155°	586	600	657	706	735	271
165°	648	650	664	679	689	182
175°	679	675	672	668	663	64
180°	674	674	674	674	674	

TEST NUMBER: P562375

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.7	1470.7	1470.7	1470.7	1470.7
2.5°	1479.0	1466.8	1470.7	1467.4	1460.3
5°	1474.6	1458.1	1462.9	1459.0	1456.4
7.5°	1459.5	1444.3	1447.9	1443.7	1442.2
10°	1446.1	1430.9	1434.4	1429.2	1426.6
12.5°	1430.5	1414.3	1417.8	1412.6	1411.1
15°	1403.3	1385.6	1387.8	1385.1	1382.6
17.5°	1371.7	1353.7	1354.1	1349.9	1349.4
20°	1348.9	1329.9	1328.2	1323.0	1325.6
22.5°	1324.0	1304.0	1302.2	1295.1	1298.6
25°	1282.8	1261.3	1259.5	1251.8	1255.6
27.5°	1235.1	1213.8	1213.9	1203.1	1207.1
30°	1199.9	1179.6	1181.7	1168.9	1174.0
32.5°	1162.6	1144.3	1145.5	1132.6	1137.7
35°	1102.7	1087.5	1087.1	1076.9	1080.7
37.5°	1041.5	1028.1	1026.0	1020.0	1021.1
40°	999.0	987.6	983.5	979.6	979.6
42.5°	954.5	944.1	939.9	937.1	936.1
45°	886.3	878.7	874.6	872.0	870.8
47.5°	818.9	811.8	808.3	806.5	805.2
50°	772.3	767.2	765.8	761.9	760.6
52.5°	725.6	722.6	721.2	716.3	715.0
55°	657.0	655.7	657.0	647.9	646.6
57.5°	585.4	587.5	591.6	579.4	576.4
60°	537.7	542.8	548.1	533.7	528.7
62.5°	489.0	497.1	504.6	488.1	481.0
65°	415.9	428.6	436.7	419.5	405.6
67.5°	345.5	361.2	370.8	352.3	336.6
70°	296.7	314.5	325.2	306.7	289.0
72.5°	254.2	274.0	282.7	265.2	247.5
75°	191.8	209.5	220.3	205.6	186.6
77.5°	136.1	152.8	161.7	148.9	133.2
80°	99.8	117.5	124.4	113.7	101.1
82.5°	70.7	85.4	90.2	83.8	75.2
85°	32.4	42.5	47.9	45.3	42.8
87.5°	8.3	15.4	19.7	19.7	20.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.2	54.3	126.0	36.7	27.7
95°	33.3	132.2	594.1	205.6	126.8
97.5°	61.2	154.8	914.9	654.7	448.6
100°	80.7	168.3	984.6	997.3	768.2
102.5°	102.2	182.8	969.2	1276.6	1076.5
105°	135.7	205.8	889.8	1571.8	1494.2
107.5°	169.8	232.6	797.1	1655.0	1724.1
110°	193.3	252.2	743.9	1623.2	1778.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.9	271.7	708.0	1547.9	1769.2
115°	252.2	304.8	674.7	1429.4	1678.5
117.5°	284.2	333.6	655.0	1299.9	1563.8
120°	309.8	351.2	653.0	1225.9	1478.8
122.5°	330.3	371.6	647.9	1161.0	1395.8
125°	355.9	394.7	644.0	1068.7	1277.8
127.5°	383.8	420.2	642.0	1013.6	1185.9
130°	398.2	434.5	638.9	975.2	1125.4
132.5°	413.6	448.9	638.9	945.2	1083.4
135°	435.3	471.6	636.3	902.8	1020.4
137.5°	455.8	491.1	636.1	866.8	968.5
140°	471.2	507.5	635.1	837.0	934.7
142.5°	488.6	518.9	638.1	813.2	900.9
145°	513.4	539.7	641.5	781.3	851.4
147.5°	534.7	560.2	647.1	749.1	809.7
150°	553.1	570.6	649.1	738.5	781.0
152.5°	567.5	586.0	651.2	724.0	763.6
155°	586.4	600.2	656.8	706.1	734.9
157.5°	610.0	618.2	658.1	698.0	718.5
160°	622.3	628.5	663.2	691.8	709.3
162.5°	629.4	636.7	664.2	686.6	700.1
165°	647.9	650.4	664.5	678.8	688.8
167.5°	660.4	658.2	670.4	676.9	680.9
170°	664.5	663.3	668.3	669.7	674.7
172.5°	673.7	669.5	671.4	667.7	671.7
175°	678.6	674.8	672.2	668.2	663.2
177.5°	680.6	674.6	671.4	667.3	668.3
180°	673.5	673.5	673.5	673.5	673.5

(END OF REPORT)