

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: P562382

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562382
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

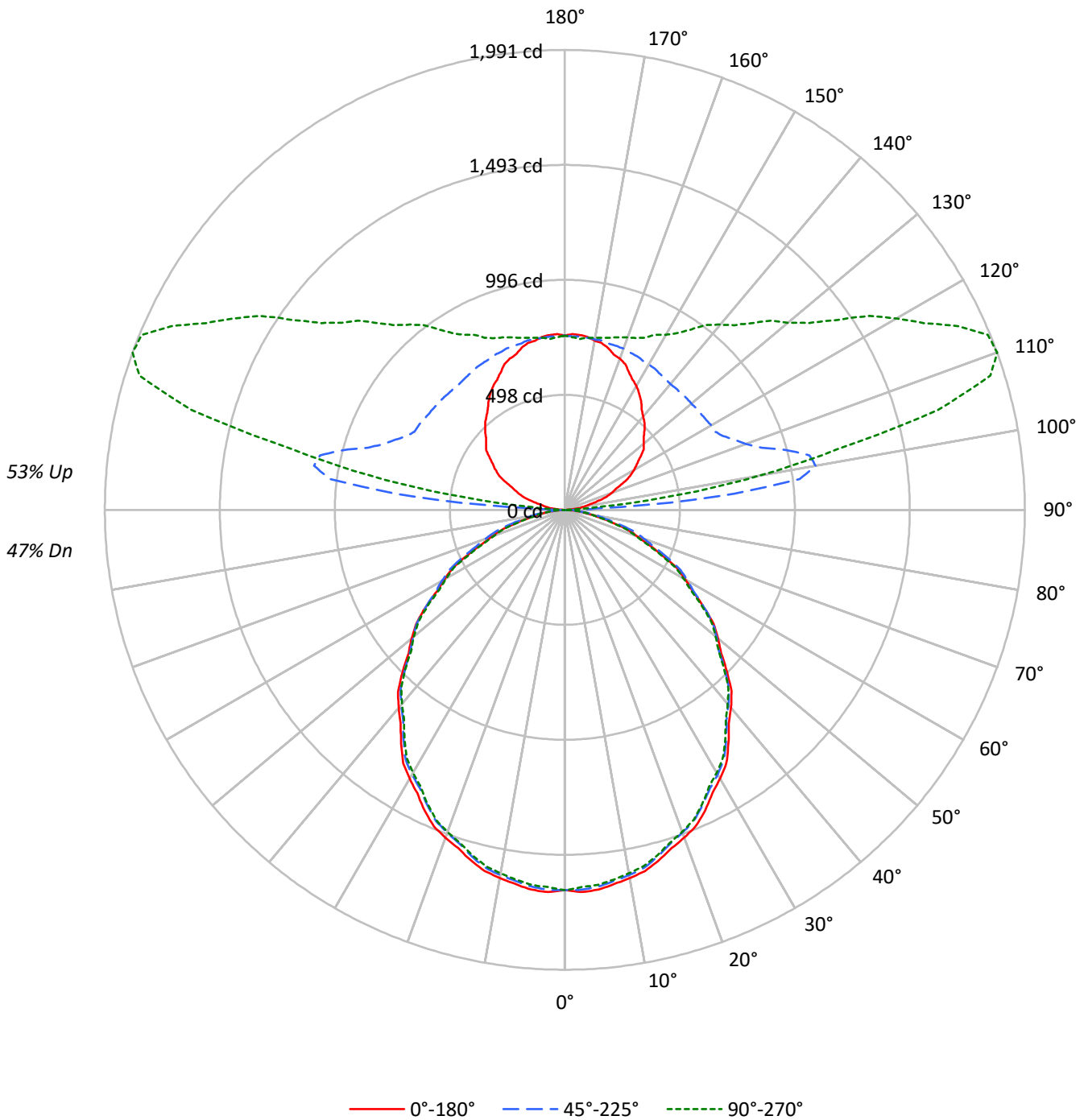
Lumens per Lamp: N/A
Luminaire Lumens: 8872.8 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.3
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°	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	1.7
10°-20°	437.7	4.9
20°-30°	649.3	7.3
30°-40°	759.8	8.6
40°-50°	756.4	8.5
50°-60°	653.2	7.4
60°-70°	470.2	5.3
70°-80°	246.5	2.8
80°-90°	61.1	0.7
90°-100°	343.6	3.9
100°-110°	977.6	11.0
110°-120°	936.6	10.6
120°-130°	741.3	8.4
130°-140°	595.0	6.7
140°-150°	465.8	5.3
150°-160°	340.8	3.8
160°-170°	211.1	2.4
170°-180°	71.6	0.8
0°-30°	1242.1	14.0
0°-40°	2001.9	22.6
0°-60°	3411.4	38.4
0°-90°	4189.2	47.2
90°-120°	2257.8	25.4
90°-150°	4059.9	45.8
90°-180°	4684.0	52.8
0°-180°	8872.8	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	48
90°	0	0	0	0	0	3
95°	37	148	665	230	142	43
105°	152	230	996	1760	1673	161
115°	282	341	755	1600	1879	278
125°	398	442	721	1196	1431	357
135°	487	528	712	1011	1142	376
145°	575	604	718	875	953	359
155°	656	672	735	791	823	303
165°	725	728	744	760	771	204
175°	760	756	753	748	742	72
180°	754	754	754	754	754	

TEST NUMBER: P562382

CATALOG NUMBER: SQ4-PW1-100U-100D-92765-1D-UNV-STD-W-4 (6500K)

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
92.5°	11.5	60.8	141.1	41.1	31.0
95°	37.3	148.0	665.1	230.2	141.9
97.5°	68.5	173.4	1024.3	733.0	502.3
100°	90.3	188.4	1102.3	1116.6	860.1
102.5°	114.4	204.7	1085.1	1429.2	1205.2
105°	151.9	230.4	996.2	1759.7	1672.8
107.5°	190.1	260.4	892.5	1852.9	1930.3
110°	216.4	282.3	832.8	1817.3	1991.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	241.7	304.2	792.7	1732.9	1980.7
115°	282.4	341.3	755.4	1600.3	1879.2
117.5°	318.2	373.4	733.3	1455.4	1750.8
120°	346.9	393.1	731.1	1372.5	1655.6
122.5°	369.8	416.1	725.3	1299.8	1562.7
125°	398.5	441.9	721.0	1196.5	1430.6
127.5°	429.7	470.4	718.7	1134.8	1327.7
130°	445.8	486.4	715.3	1091.8	1260.0
132.5°	463.0	502.5	715.3	1058.2	1213.0
135°	487.4	528.0	712.4	1010.7	1142.5
137.5°	510.3	549.8	712.1	970.4	1084.3
140°	527.5	568.2	711.0	937.1	1046.4
142.5°	547.0	580.9	714.4	910.5	1008.6
145°	574.8	604.2	718.2	874.7	953.2
147.5°	598.6	627.2	724.5	838.7	906.5
150°	619.2	638.9	726.8	826.7	874.4
152.5°	635.3	656.0	729.0	810.6	854.9
155°	656.5	671.9	735.4	790.6	822.8
157.5°	682.9	692.1	736.8	781.5	804.4
160°	696.7	703.7	742.5	774.5	794.1
162.5°	704.7	712.8	743.7	768.7	783.8
165°	725.3	728.1	744.0	760.0	771.2
167.5°	739.4	736.8	750.6	757.8	762.3
170°	744.0	742.6	748.3	749.8	755.4
172.5°	754.3	749.5	751.7	747.5	752.0
175°	759.7	755.5	752.6	748.1	742.5
177.5°	762.0	755.3	751.7	747.1	748.3
180°	754.0	754.0	754.0	754.0	754.0

(END OF REPORT)