

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: P562434

Luminaire Tested: **SQ4-PW1-125U-100D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562434
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-PW1-125U-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 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

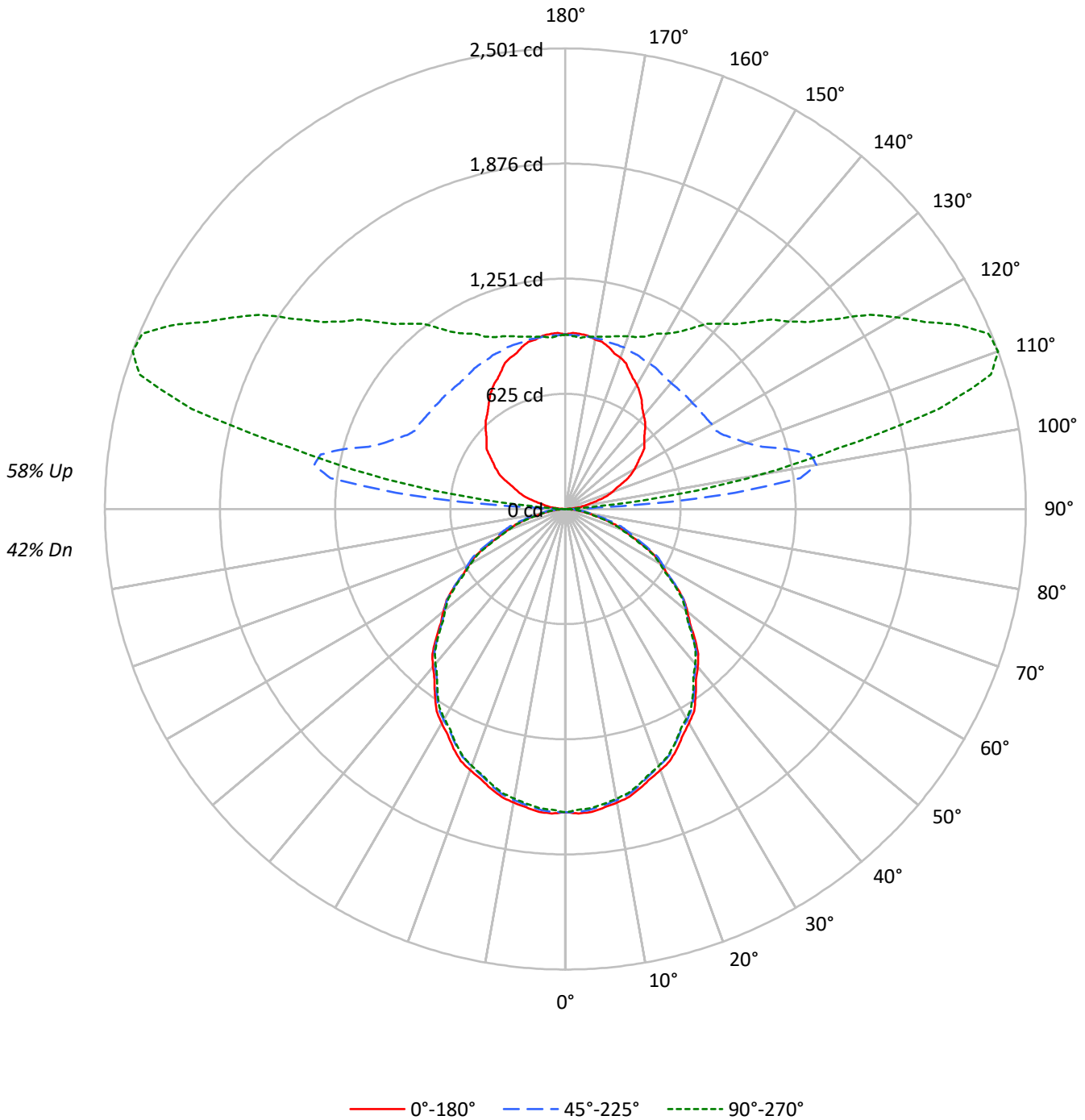
Lumens per Lamp: N/A
Luminaire Lumens: 10071.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.3
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	20	17	15
8	53	41	33	28	48	38	31	26	31	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

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	1.5
10°-20°	437.7	4.3
20°-30°	649.3	6.4
30°-40°	759.8	7.5
40°-50°	756.4	7.5
50°-60°	653.2	6.5
60°-70°	470.2	4.7
70°-80°	246.5	2.4
80°-90°	61.1	0.6
90°-100°	431.5	4.3
100°-110°	1227.8	12.2
110°-120°	1176.4	11.7
120°-130°	931.1	9.2
130°-140°	747.3	7.4
140°-150°	585.1	5.8
150°-160°	428.1	4.3
160°-170°	265.2	2.6
170°-180°	90.0	0.9
0°-30°	1242.1	12.3
0°-40°	2001.9	19.9
0°-60°	3411.4	33.9
0°-90°	4189.2	41.6
90°-120°	2835.8	28.2
90°-150°	5099.2	50.6
90°-180°	5882.0	58.4
0°-180°	10071.7	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°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	



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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
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)