

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: P519039

Luminaire Tested: **SQ4-WB-025U-100D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519039
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-100D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

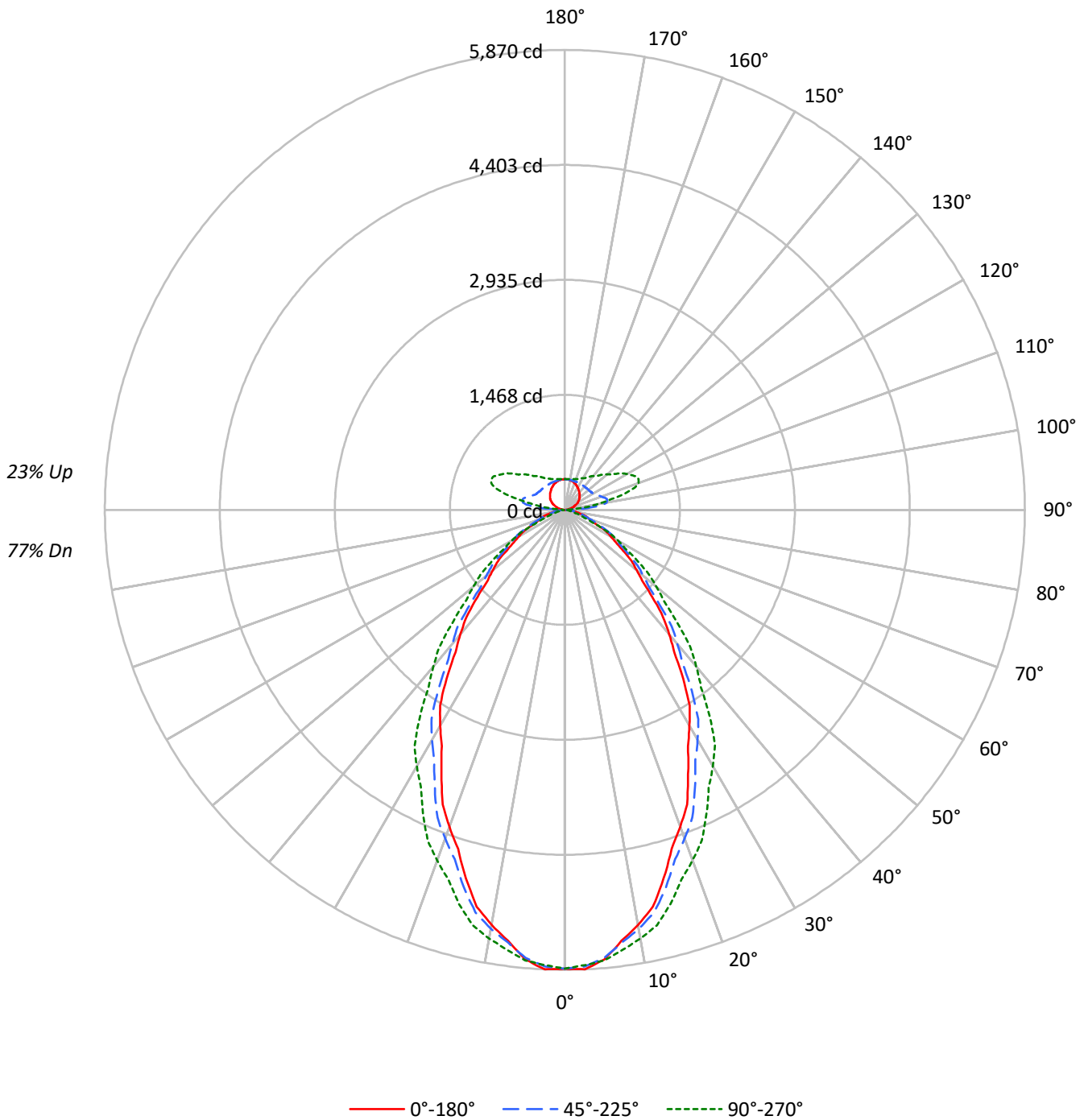
Lumens per Lamp: N/A
Luminaire Lumens: 11065.8 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77
1	106	102	98	95	101	97	94	92	89	87	85	81	80	78	74	73	72	68
2	98	91	86	81	93	87	82	78	80	76	73	74	71	68	68	65	63	60
3	90	82	75	70	86	79	73	68	73	68	64	67	63	60	62	59	56	53
4	84	74	67	61	80	71	65	59	66	60	56	61	57	53	57	53	50	48
5	78	67	59	54	74	65	58	53	60	54	50	56	51	48	52	48	45	43
6	72	61	54	48	69	59	52	47	55	49	45	51	47	43	48	44	41	38
7	68	56	49	43	65	54	47	42	51	45	41	47	43	39	44	40	37	35
8	63	52	44	39	61	50	43	38	47	41	37	44	39	35	41	37	34	32
9	60	48	41	36	57	46	40	35	44	38	34	41	36	32	39	34	31	29
10	56	44	37	33	54	43	37	32	41	35	31	38	33	30	36	32	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18010	18010	18010
5°	17785	17722	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12635	13323	14518
30°	11297	12036	13414
35°	9879	10593	12107
40°	8315	8975	10481
45°	6862	7454	8751
50°	5729	6246	7291
55°	4864	5360	6021
60°	4157	4647	4805
65°	3310	3908	3104
70°	2934	3050	1895
75°	2718	2473	1160
80°	2502	2276	1001
85°	2265	2085	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.1	4.9
10°-20°	1397.1	12.6
20°-30°	1809.7	16.4
30°-40°	1772.1	16.0
40°-50°	1356.5	12.3
50°-60°	903.9	8.2
60°-70°	493.2	4.5
70°-80°	205.5	1.9
80°-90°	60.3	0.5
90°-100°	190.3	1.7
100°-110°	500.2	4.5
110°-120°	518.7	4.7
120°-130°	416.0	3.8
130°-140°	326.4	3.0
140°-150°	250.5	2.3
150°-160°	180.4	1.6
160°-170°	110.4	1.0
170°-180°	37.3	0.3
0°-30°	3744.0	33.8
0°-40°	5516.1	49.8
0°-60°	7776.5	70.3
0°-90°	8535.5	77.1
90°-120°	1209.1	10.9
90°-150°	2202.1	19.9
90°-180°	2530.0	22.9
0°-180°	11065.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5856	5856	5856	5856	5856	
5°	5761	5703	5740	5754	5774	536
15°	4872	4854	4985	5121	5209	1361
25°	3723	3733	3926	4098	4278	1712
35°	2631	2644	2821	3011	3225	1636
45°	1578	1608	1714	1844	2012	1230
55°	907	945	1000	1038	1123	822
65°	455	492	537	469	427	473
75°	229	229	208	143	98	244
85°	64	64	59	38	23	70
90°	2	7	20	10	10	5
95°	25	98	328	169	115	28
105°	90	137	553	840	783	95
115°	160	194	443	884	1008	158
125°	223	250	403	681	803	198
135°	265	292	390	550	623	205
145°	308	327	385	469	506	193
155°	348	358	385	423	435	160
165°	375	380	385	400	405	106
175°	390	390	388	393	393	37
180°	390	390	390	390	390	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5856.1	5856.1	5856.1	5856.1	5856.1
2.5°	5870.5	5818.2	5831.4	5831.1	5815.0
5°	5761.0	5703.3	5740.5	5753.8	5773.9
7.5°	5547.3	5503.5	5571.4	5621.7	5662.4
10°	5380.7	5343.1	5429.6	5502.7	5555.5
12.5°	5187.5	5155.9	5263.1	5361.2	5430.1
15°	4872.0	4854.4	4985.0	5120.6	5208.6
17.5°	4534.3	4525.8	4675.6	4833.9	4946.5
20°	4304.1	4301.6	4466.0	4630.8	4761.5
22.5°	4071.8	4077.3	4250.1	4421.6	4570.3
25°	3723.4	3733.4	3926.3	4097.5	4278.4
27.5°	3401.1	3405.6	3605.1	3785.8	3978.8
30°	3181.2	3193.7	3389.3	3576.3	3777.3
32.5°	2961.2	2975.8	3167.3	3360.6	3565.6
35°	2631.3	2643.8	2821.4	3011.3	3224.8
37.5°	2291.1	2308.1	2465.8	2645.3	2855.3
40°	2071.1	2096.2	2235.6	2404.7	2610.7
42.5°	1859.4	1890.5	2019.7	2180.2	2366.1
45°	1577.7	1607.9	1713.9	1843.7	2012.0
47.5°	1335.2	1369.8	1451.3	1563.0	1706.7
50°	1197.4	1230.1	1305.4	1388.1	1523.8
52.5°	1076.1	1108.8	1175.8	1239.6	1355.2
55°	907.1	944.8	999.6	1037.5	1122.9
57.5°	768.3	804.5	848.0	865.1	916.8
60°	675.8	716.0	755.5	753.5	781.2
62.5°	591.5	625.7	665.0	637.8	639.3
65°	454.8	492.5	537.0	469.3	426.6
67.5°	367.5	375.5	421.4	327.2	276.5
70°	326.3	326.3	339.2	253.4	210.7
72.5°	287.3	287.3	275.5	206.1	161.4
75°	228.7	228.7	208.1	142.9	97.6
77.5°	176.3	174.3	159.3	106.6	70.9
80°	141.3	141.3	128.5	84.2	56.5
82.5°	110.5	110.5	99.7	65.8	42.1
85°	64.2	64.2	59.1	38.2	23.1
87.5°	23.1	24.1	24.6	14.3	12.3
90°	2.5	7.4	20.0	10.0	10.0
92.5°	10.5	50.6	112.1	49.6	32.0
95°	25.0	98.4	327.8	168.9	115.1
97.5°	43.5	108.1	490.5	390.0	287.3
100°	57.6	116.3	540.5	547.8	425.4
102.5°	69.6	124.4	554.5	682.3	577.6
105°	90.1	136.6	553.0	839.5	783.3
107.5°	111.1	154.2	521.5	921.2	934.9
110°	125.1	164.3	495.5	942.2	1001.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.1	176.3	471.5	928.9	1019.0
115°	160.2	194.4	442.9	883.7	1008.5
117.5°	180.7	212.0	423.4	820.9	959.4
120°	192.7	222.0	415.4	778.8	913.4
122.5°	204.7	234.1	409.4	736.7	869.3
125°	222.7	249.6	402.9	680.9	803.3
127.5°	237.2	264.6	397.4	636.0	739.2
130°	245.2	274.6	395.4	607.8	703.2
132.5°	253.2	282.6	393.4	583.5	669.1
135°	265.3	292.2	390.4	549.7	623.1
137.5°	277.8	304.2	389.9	524.4	584.6
140°	287.8	312.2	387.9	504.3	560.5
142.5°	295.8	318.3	387.9	490.1	538.5
145°	307.8	327.4	385.4	468.8	505.5
147.5°	319.8	338.9	385.4	451.1	481.5
150°	327.8	344.9	385.4	441.0	465.4
152.5°	335.8	349.0	385.4	432.8	451.4
155°	347.8	357.6	385.4	423.2	435.4
157.5°	356.8	366.1	385.4	414.6	423.4
160°	362.8	370.2	385.4	410.5	415.4
162.5°	368.9	374.2	385.4	406.5	411.4
165°	375.4	380.3	385.4	400.5	405.4
167.5°	381.4	383.8	387.9	397.9	399.9
170°	385.4	387.8	387.9	397.9	397.9
172.5°	387.4	387.9	387.9	395.8	393.9
175°	390.4	390.4	387.9	392.9	392.9
177.5°	390.4	390.4	388.4	392.3	390.4
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)