

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521933

Luminaire Tested: **SQ4-WB-100U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021



Test Information

Test Method: LM-79-08
Report Number: P521933
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-100U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

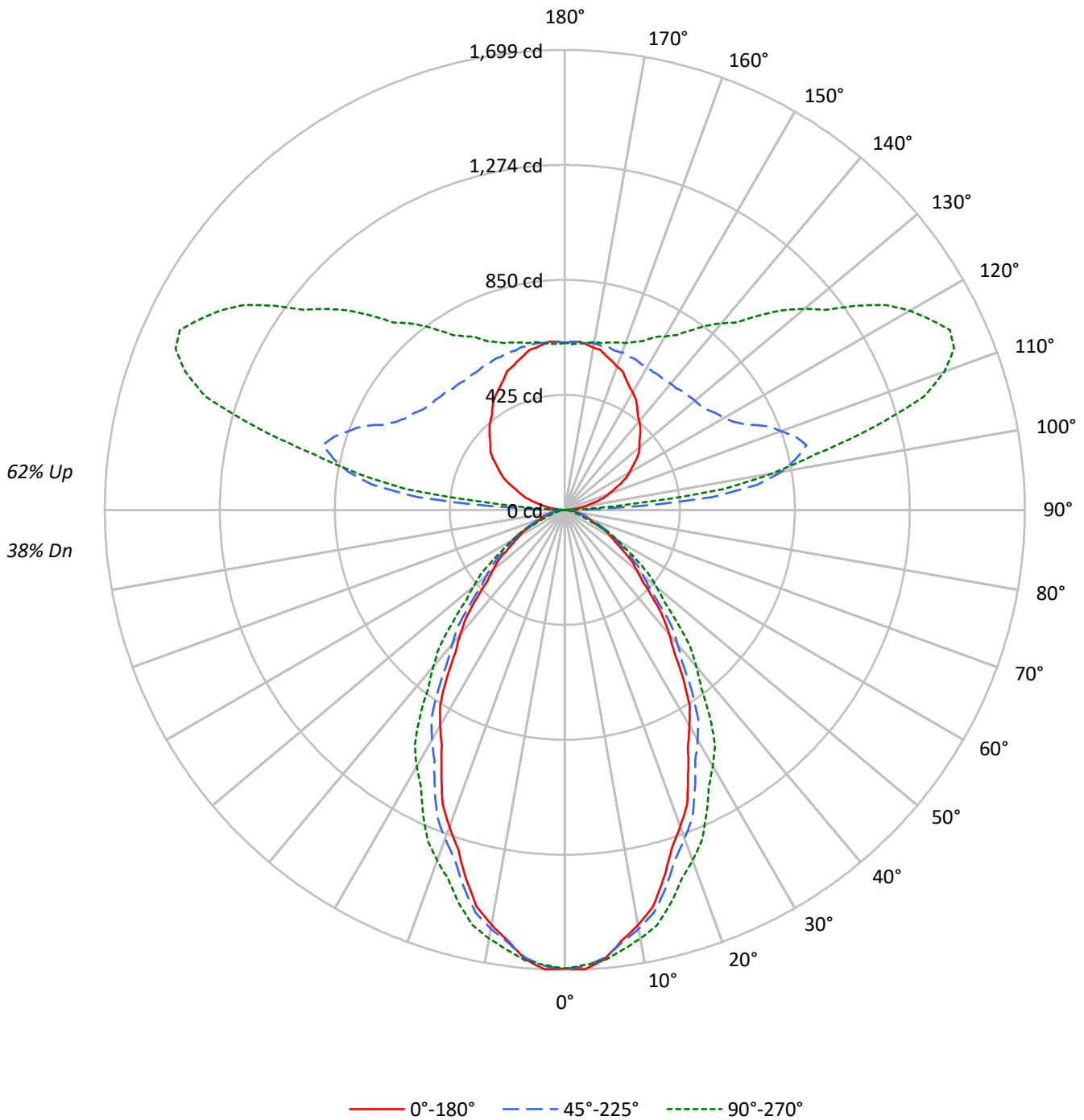
Lumens per Lamp: N/A
Luminaire Lumens: 6465.3 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63.9
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	89	85	87	84	81	78	68	67	65	54	53	52	41	41	40	34
2	88	81	76	71	80	74	70	66	61	58	55	49	47	45	37	36	35	30
3	81	72	66	60	73	66	61	56	55	51	47	44	41	39	34	32	31	26
4	75	65	57	52	68	59	53	48	49	45	41	40	37	34	31	29	27	24
5	69	58	51	45	62	53	47	42	44	40	36	36	33	30	28	26	25	21
6	64	52	45	40	58	48	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	40	35	54	44	37	33	37	32	28	30	27	24	24	22	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	22	20	18	16
9	51	40	33	28	47	37	31	26	31	26	23	26	22	20	21	18	17	15
10	48	37	30	25	44	34	28	24	29	24	21	24	21	18	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15637	15637	15637
5°	15442	15387	15477
10°	14590	14722	15064
15°	13468	13781	14399
20°	12231	12690	13531
25°	10970	11569	12605
30°	9809	10450	11646
35°	8577	9197	10512
40°	7219	7792	9100
45°	5958	6472	7598
50°	4975	5423	6330
55°	4222	4654	5228
60°	3609	4034	4172
65°	2873	3393	2696
70°	2546	2649	1646
75°	2360	2146	1009
80°	2173	1976	871
85°	1969	1810	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.4
10°-20°	404.4	6.3
20°-30°	523.8	8.1
30°-40°	512.9	7.9
40°-50°	392.6	6.1
50°-60°	261.6	4.0
60°-70°	142.7	2.2
70°-80°	59.5	0.9
80°-90°	16.8	0.3
90°-100°	318.1	4.9
100°-110°	768.8	11.9
110°-120°	820.0	12.7
120°-130°	664.1	10.3
130°-140°	514.2	8.0
140°-150°	392.3	6.1
150°-160°	283.9	4.4
160°-170°	174.9	2.7
170°-180°	59.2	0.9
0°-30°	1083.6	16.8
0°-40°	1596.5	24.7
0°-60°	2250.6	34.8
0°-90°	2469.7	38.2
90°-120°	1906.9	29.5
90°-150°	3477.5	53.8
90°-180°	3996.0	61.8
0°-180°	6465.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1667	1651	1661	1665	1671	155
15°	1410	1405	1443	1482	1508	394
25°	1078	1080	1136	1186	1238	496
35°	762	765	817	872	933	473
45°	457	465	496	534	582	356
55°	262	273	289	300	325	238
65°	132	142	155	136	124	137
75°	66	66	60	41	28	71
85°	19	19	17	11	7	20
90°	0	0	0	0	0	2
95°	31	159	545	354	248	35
105°	123	212	924	1196	1180	130
115°	225	287	742	1407	1570	222
125°	320	369	644	1119	1315	286
135°	393	439	618	883	1016	304
145°	465	500	606	750	809	291
155°	533	556	614	664	689	246
165°	590	598	622	632	640	166
175°	623	621	623	618	617	59
180°	617	617	617	617	617	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.9	1694.9	1694.9	1694.9	1694.9
2.5°	1699.0	1683.9	1687.7	1687.6	1683.0
5°	1667.3	1650.6	1661.4	1665.3	1671.1
7.5°	1605.5	1592.8	1612.5	1627.0	1638.8
10°	1557.3	1546.4	1571.4	1592.6	1607.9
12.5°	1501.4	1492.2	1523.2	1551.6	1571.6
15°	1410.0	1404.9	1442.8	1482.0	1507.5
17.5°	1312.3	1309.8	1353.2	1399.0	1431.6
20°	1245.7	1245.0	1292.5	1340.2	1378.1
22.5°	1178.4	1180.0	1230.1	1279.7	1322.7
25°	1077.6	1080.5	1136.4	1185.9	1238.2
27.5°	984.3	985.7	1043.4	1095.7	1151.5
30°	920.7	924.3	980.9	1035.0	1093.2
32.5°	857.0	861.2	916.7	972.6	1031.9
35°	761.5	765.2	816.6	871.5	933.3
37.5°	663.1	668.0	713.6	765.6	826.4
40°	599.4	606.7	647.0	696.0	755.6
42.5°	538.1	547.1	584.5	631.0	684.8
45°	456.6	465.4	496.0	533.6	582.3
47.5°	386.4	396.5	420.0	452.4	494.0
50°	346.6	356.0	377.8	401.7	441.0
52.5°	311.5	320.9	340.3	358.8	392.2
55°	262.5	273.4	289.3	300.3	325.0
57.5°	222.4	232.8	245.4	250.4	265.3
60°	195.6	207.2	218.6	218.1	226.1
62.5°	171.2	181.1	192.5	184.6	185.0
65°	131.6	142.5	155.4	135.8	123.5
67.5°	106.3	108.7	122.0	94.7	80.0
70°	94.4	94.4	98.2	73.3	61.0
72.5°	83.1	83.1	79.7	59.6	46.7
75°	66.2	66.2	60.2	41.3	28.3
77.5°	51.0	50.4	46.1	30.9	20.5
80°	40.9	40.9	37.2	24.4	16.4
82.5°	32.0	32.0	28.9	19.0	12.2
85°	18.6	18.6	17.1	11.1	6.7
87.5°	6.5	6.5	5.9	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.5	86.1	202.8	98.6	66.9
95°	31.4	159.2	545.0	354.4	248.3
97.5°	55.7	176.3	717.8	691.5	593.6
100°	74.5	187.0	812.9	858.2	777.7
102.5°	92.3	196.6	875.7	996.9	949.1
105°	122.9	212.3	924.0	1195.6	1180.2
107.5°	152.9	230.9	895.6	1354.9	1390.9
110°	173.8	246.7	849.5	1423.5	1491.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.7	262.5	808.8	1440.3	1556.1
115°	224.8	287.4	742.4	1407.4	1569.7
117.5°	254.6	313.6	703.4	1331.7	1521.9
120°	274.5	329.4	678.3	1272.3	1471.7
122.5°	295.4	346.2	662.6	1211.6	1407.9
125°	320.2	368.8	644.3	1119.3	1314.8
127.5°	344.8	390.5	631.5	1041.1	1212.9
130°	359.4	404.2	627.4	986.7	1155.4
132.5°	373.0	419.8	621.1	947.4	1090.6
135°	393.4	439.4	618.2	882.6	1015.5
137.5°	412.7	459.0	609.1	838.8	938.9
140°	427.4	469.6	609.1	807.2	899.2
142.5°	442.0	484.2	603.8	779.7	857.4
145°	465.3	499.8	606.4	750.2	809.0
147.5°	487.0	520.5	604.9	716.3	764.9
150°	500.6	530.0	609.1	701.4	739.8
152.5°	515.2	543.6	608.0	685.6	719.9
155°	533.3	556.3	614.3	664.5	688.8
157.5°	554.9	574.6	613.0	656.4	670.7
160°	563.3	579.9	618.2	645.9	656.1
162.5°	576.9	591.5	616.1	642.7	648.8
165°	589.5	598.4	622.1	631.5	640.4
167.5°	604.9	610.8	620.6	630.8	631.0
170°	609.1	612.9	624.7	623.6	630.0
172.5°	616.4	619.2	621.6	624.4	620.6
175°	623.4	620.9	623.4	618.2	616.9
177.5°	622.1	622.1	620.0	617.8	612.7
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)