

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: P521934

Luminaire Tested: **SQ4-WB-100U-075D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521934
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

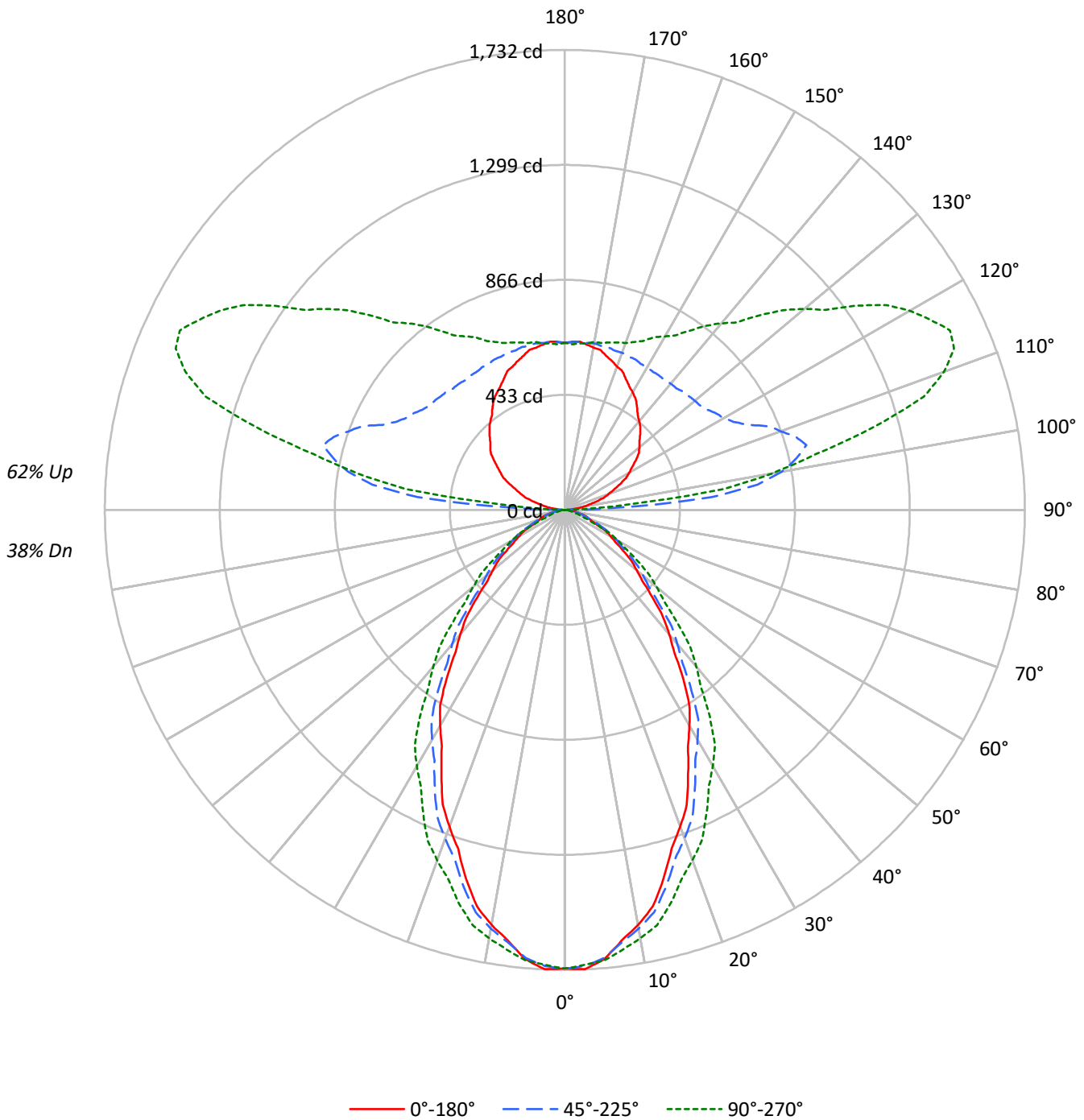
Lumens per Lamp: N/A
Luminaire Lumens: 6589.1 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	15936	15936	15936
5°	15738	15681	15773
10°	14869	15004	15351
15°	13726	14045	14674
20°	12464	12934	13789
25°	11180	11789	12847
30°	9996	10650	11870
35°	8741	9373	10713
40°	7358	7942	9275
45°	6072	6596	7744
50°	5070	5526	6452
55°	4303	4742	5327
60°	3678	4111	4251
65°	2930	3458	2746
70°	2598	2698	1678
75°	2406	2189	1027
80°	2216	2014	887
85°	2001	1842	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	2.4
10°-20°	412.1	6.3
20°-30°	533.8	8.1
30°-40°	522.7	7.9
40°-50°	400.1	6.1
50°-60°	266.6	4.0
60°-70°	145.5	2.2
70°-80°	60.6	0.9
80°-90°	17.2	0.3
90°-100°	324.2	4.9
100°-110°	783.5	11.9
110°-120°	835.7	12.7
120°-130°	676.8	10.3
130°-140°	524.0	8.0
140°-150°	399.8	6.1
150°-160°	289.4	4.4
160°-170°	178.2	2.7
170°-180°	60.4	0.9
0°-30°	1104.3	16.8
0°-40°	1627.0	24.7
0°-60°	2293.7	34.8
0°-90°	2517.0	38.2
90°-120°	1943.4	29.5
90°-150°	3544.1	53.8
90°-180°	4072.0	61.8
0°-180°	6589.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1699	1682	1693	1697	1703	158
15°	1437	1432	1470	1510	1536	401
25°	1098	1101	1158	1209	1262	505
35°	776	780	832	888	951	482
45°	465	474	506	544	594	363
55°	268	279	295	306	331	243
65°	134	145	158	138	126	139
75°	68	68	61	42	29	72
85°	19	19	17	11	7	21
90°	0	0	0	0	0	2
95°	32	162	556	361	253	36
105°	125	216	942	1218	1203	132
115°	229	293	757	1434	1600	227
125°	326	376	657	1141	1340	291
135°	401	448	630	900	1035	310
145°	474	509	618	765	824	296
155°	544	567	626	677	702	251
165°	601	610	634	644	653	170
175°	635	633	635	630	629	60
180°	629	629	629	629	629	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1731.6	1716.1	1720.0	1719.9	1715.2
5°	1699.3	1682.2	1693.2	1697.1	1703.1
7.5°	1636.2	1623.3	1643.3	1658.2	1670.2
10°	1587.1	1576.0	1601.5	1623.1	1638.6
12.5°	1530.1	1520.8	1552.4	1581.3	1601.7
15°	1437.0	1431.8	1470.4	1510.4	1536.3
17.5°	1337.4	1334.9	1379.1	1425.8	1459.0
20°	1269.5	1268.8	1317.3	1365.9	1404.4
22.5°	1201.0	1202.6	1253.6	1304.2	1348.1
25°	1098.2	1101.2	1158.1	1208.6	1262.0
27.5°	1003.2	1004.5	1063.4	1116.7	1173.6
30°	938.3	942.0	999.7	1054.9	1114.2
32.5°	873.4	877.7	934.2	991.2	1051.7
35°	776.1	779.8	832.2	888.2	951.2
37.5°	675.8	680.8	727.3	780.3	842.2
40°	610.9	618.3	659.4	709.3	770.1
42.5°	548.4	557.6	595.7	643.1	697.9
45°	465.4	474.3	505.5	543.8	593.5
47.5°	393.8	404.0	428.1	461.0	503.4
50°	353.2	362.8	385.0	409.4	449.5
52.5°	317.4	327.1	346.8	365.6	399.7
55°	267.5	278.7	294.8	306.0	331.2
57.5°	226.6	237.3	250.1	255.2	270.4
60°	199.3	211.2	222.8	222.3	230.4
62.5°	174.5	184.6	196.2	188.1	188.6
65°	134.2	145.3	158.4	138.4	125.8
67.5°	108.4	110.8	124.3	96.5	81.6
70°	96.3	96.3	100.0	74.7	62.2
72.5°	84.7	84.7	81.2	60.8	47.6
75°	67.5	67.5	61.4	42.1	28.8
77.5°	52.0	51.4	47.0	31.4	20.9
80°	41.7	41.7	37.9	24.8	16.7
82.5°	32.6	32.6	29.4	19.4	12.4
85°	18.9	18.9	17.4	11.3	6.8
87.5°	6.7	6.7	6.1	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	10.7	87.8	206.7	100.5	68.2
95°	32.0	162.2	555.5	361.2	253.1
97.5°	56.7	179.7	731.5	704.8	605.0
100°	75.9	190.5	828.5	874.6	792.6
102.5°	94.0	200.3	892.5	1016.0	967.3
105°	125.2	216.4	941.7	1218.4	1202.8
107.5°	155.8	235.3	912.7	1380.8	1417.5
110°	177.2	251.4	865.8	1450.8	1519.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	198.5	267.5	824.3	1467.9	1585.9
115°	229.1	292.9	756.6	1434.3	1599.8
117.5°	259.5	319.6	716.9	1357.2	1551.0
120°	279.7	335.7	691.3	1296.7	1499.9
122.5°	301.0	352.9	675.3	1234.8	1434.9
125°	326.3	375.8	656.7	1140.7	1340.0
127.5°	351.4	398.0	643.6	1061.1	1236.1
130°	366.3	411.9	639.4	1005.6	1177.5
132.5°	380.2	427.8	633.0	965.6	1111.4
135°	400.9	447.8	630.0	899.5	1035.0
137.5°	420.7	467.8	620.7	854.8	956.9
140°	435.6	478.6	620.7	822.7	916.4
142.5°	450.5	493.5	615.4	794.6	873.8
145°	474.2	509.4	618.1	764.6	824.5
147.5°	496.3	530.4	616.5	730.0	779.5
150°	510.2	540.1	620.7	714.9	753.9
152.5°	525.1	554.0	619.7	698.8	733.7
155°	543.5	566.9	626.0	677.2	702.0
157.5°	565.6	585.6	624.7	669.0	683.6
160°	574.1	591.0	630.0	658.3	668.7
162.5°	588.0	602.8	627.9	655.0	661.2
165°	600.7	609.9	634.0	643.6	652.7
167.5°	616.5	622.4	632.4	642.8	643.1
170°	620.7	624.6	636.7	635.5	642.0
172.5°	628.2	631.0	633.5	636.4	632.4
175°	635.4	632.8	635.4	630.0	628.7
177.5°	634.0	634.0	631.9	629.7	624.5
180°	628.7	628.7	628.7	628.7	628.7

(END OF REPORT)