

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: P521595

Luminaire Tested: **SQ4-F-100U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521595
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-F-100U-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

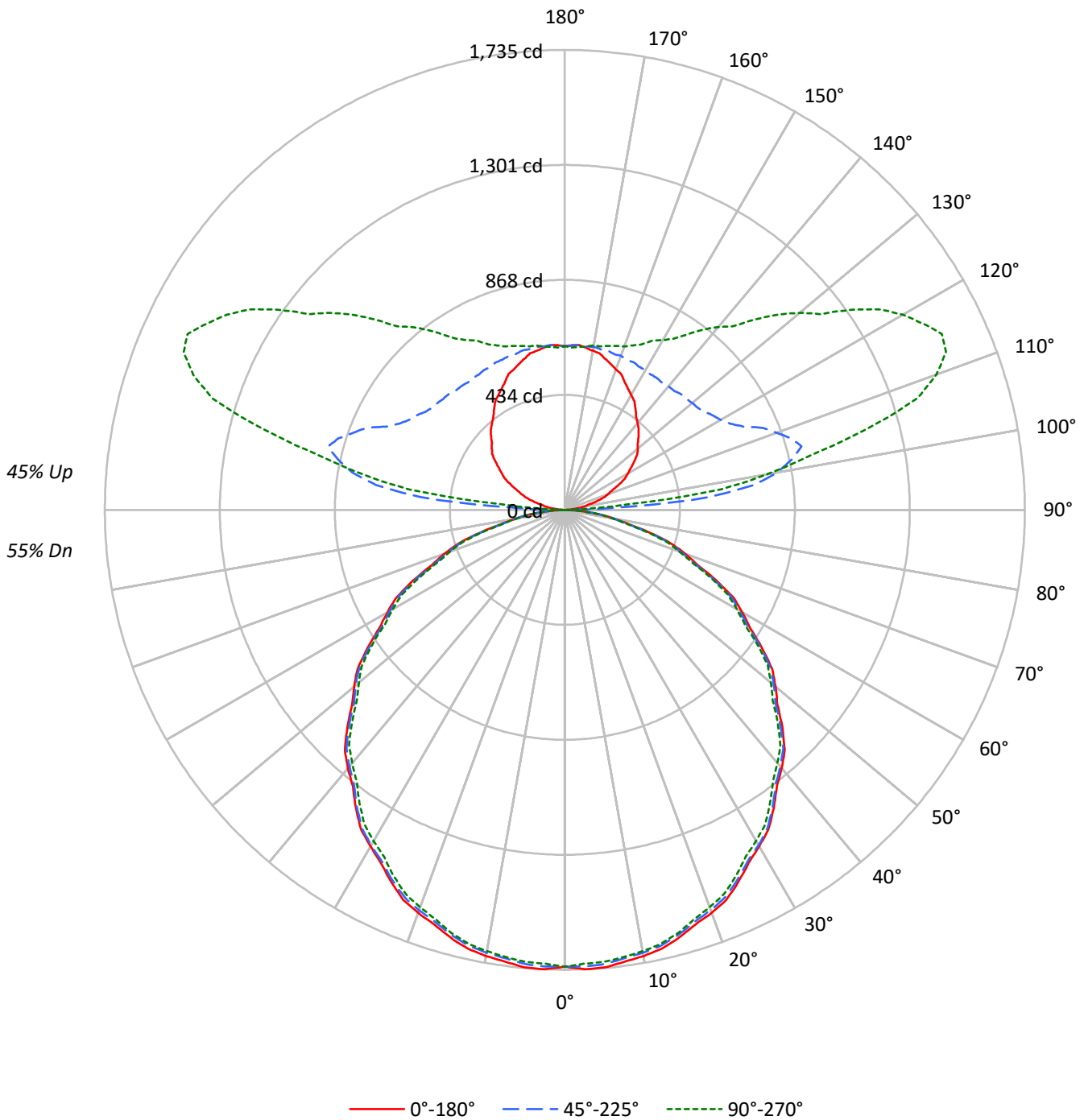
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8905.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.8
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	94	90	87	92	88	84	81	75	73	71	64	62	61	54	52	51	46		
2	90	82	76	71	83	77	71	66	66	62	58	56	53	50	47	45	43	38		
3	82	72	65	59	76	67	61	55	58	53	49	49	46	42	41	39	36	32		
4	75	64	56	49	69	59	52	47	51	46	41	44	40	36	37	34	31	27		
5	69	57	48	42	63	53	46	40	46	40	36	39	35	31	33	30	27	24		
6	63	51	42	37	58	47	40	35	41	35	31	35	31	27	30	26	24	21		
7	58	46	38	32	54	43	36	30	37	31	27	32	27	24	27	24	21	18		
8	54	42	34	28	50	39	32	27	34	28	24	29	25	21	25	21	19	16		
9	50	38	30	25	47	36	29	24	31	26	22	27	22	19	23	19	17	15		
10	47	35	27	23	44	33	26	21	29	23	19	25	20	17	21	18	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15897	15897	15897
5°	16048	15931	15857
10°	16014	15894	15838
15°	15951	15848	15783
20°	15886	15780	15665
25°	15772	15682	15533
30°	15617	15565	15367
35°	15472	15394	15206
40°	15327	15221	15020
45°	15133	15005	14813
50°	14886	14774	14563
55°	14599	14458	14268
60°	14249	14050	13815
65°	13773	13496	13238
70°	12970	12652	12414
75°	11821	11471	11229
80°	9750	9697	9489
85°	6955	7897	7897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	1.8
10°-20°	467.2	5.2
20°-30°	706.5	7.9
30°-40°	850.6	9.6
40°-50°	883.3	9.9
50°-60°	800.5	9.0
60°-70°	609.6	6.8
70°-80°	340.7	3.8
80°-90°	88.6	1.0
90°-100°	318.1	3.6
100°-110°	768.8	8.6
110°-120°	820.0	9.2
120°-130°	664.1	7.5
130°-140°	514.2	5.8
140°-150°	392.3	4.4
150°-160°	283.9	3.2
160°-170°	174.9	2.0
170°-180°	59.2	0.7
0°-30°	1336.7	15.0
0°-40°	2187.3	24.6
0°-60°	3871.0	43.5
0°-90°	4909.9	55.1
90°-120°	1906.9	21.4
90°-150°	3477.5	39.0
90°-180°	3996.0	44.9
0°-180°	8905.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1723	1723	1723	1723	1723	
5°	1733	1715	1720	1713	1712	164
15°	1670	1653	1659	1655	1652	471
25°	1549	1532	1540	1527	1526	713
35°	1374	1361	1367	1351	1350	859
45°	1160	1150	1150	1135	1135	894
55°	908	904	899	887	887	811
65°	631	624	618	607	606	622
75°	332	324	322	317	315	349
85°	66	72	75	76	75	81
90°	0	0	0	0	0	4
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	

TEST NUMBER: P521595

CATALOG NUMBER: SQ4-F-100U-125D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.0	1723.0	1723.0	1723.0	1723.0
2.5°	1734.8	1719.4	1723.8	1720.5	1713.6
5°	1732.8	1714.6	1720.1	1713.2	1712.2
7.5°	1719.5	1701.2	1706.7	1702.6	1701.6
10°	1709.3	1691.0	1696.5	1691.6	1690.6
12.5°	1695.1	1677.7	1683.2	1677.5	1676.5
15°	1670.0	1652.8	1659.2	1655.2	1652.4
17.5°	1639.2	1621.6	1629.2	1623.2	1619.8
20°	1618.0	1598.8	1607.2	1597.4	1595.5
22.5°	1592.1	1572.9	1581.3	1569.1	1568.8
25°	1549.3	1532.1	1540.5	1526.7	1525.8
27.5°	1501.3	1485.1	1494.0	1477.3	1476.1
30°	1465.9	1450.6	1461.0	1444.3	1442.4
32.5°	1429.8	1416.8	1423.3	1409.0	1406.3
35°	1373.7	1361.2	1366.8	1351.1	1350.1
37.5°	1313.5	1301.0	1306.2	1291.2	1289.5
40°	1272.6	1260.2	1263.8	1248.1	1247.1
42.5°	1227.9	1217.7	1219.8	1203.4	1203.9
45°	1159.8	1150.2	1150.0	1135.3	1135.3
47.5°	1087.4	1077.8	1078.0	1064.4	1063.2
50°	1037.1	1031.4	1029.3	1016.5	1014.6
52.5°	985.3	981.1	977.5	964.7	964.3
55°	907.6	903.8	898.8	887.0	887.0
57.5°	827.9	823.5	817.2	805.4	804.4
60°	772.2	769.3	761.4	749.6	748.7
62.5°	716.5	711.3	704.9	693.9	692.9
65°	630.9	624.2	618.2	607.3	606.4
67.5°	542.0	534.5	529.5	521.9	519.1
70°	480.8	474.1	469.0	463.1	460.2
72.5°	419.6	413.6	410.1	404.2	401.3
75°	331.6	324.0	321.8	316.9	315.0
77.5°	242.4	238.5	236.7	233.1	230.4
80°	183.5	183.5	182.5	180.5	178.6
82.5°	132.5	134.0	135.4	135.0	133.1
85°	65.7	71.5	74.6	75.5	74.6
87.5°	18.8	25.0	29.8	30.6	29.8
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)