

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: P521985

Luminaire Tested: **SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521985
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-125U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

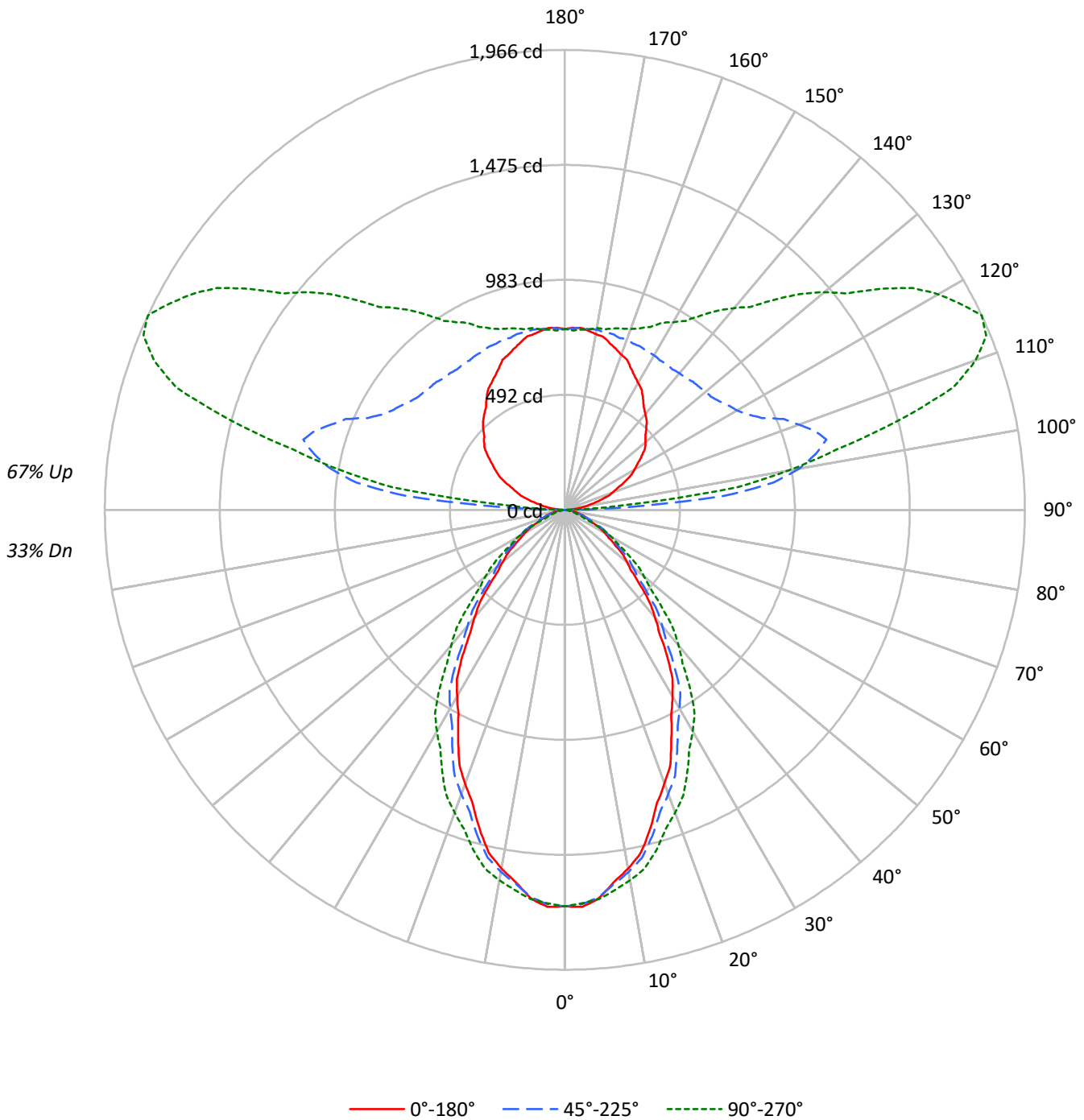
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7474.4 lumens
Efficiency: N/A
Efficacy: 102.5 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): 72.9
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	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	95	91	87	84	85	82	79	77	66	64	62	51	50	48	37	36	36	29				
2	87	80	75	70	78	73	68	64	59	55	53	46	43	42	33	32	31	26				
3	80	71	64	59	72	65	59	54	52	48	45	41	38	36	30	29	28	23				
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	24	20				
5	68	57	49	44	61	52	45	41	42	38	34	34	30	28	25	23	22	18				
6	62	51	44	38	56	47	40	36	38	34	30	31	27	25	23	21	20	16				
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15				
8	54	42	35	30	49	39	32	28	32	27	24	26	23	20	20	18	16	14				
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13				
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12				

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	2.1
10°-20°	404.4	5.4
20°-30°	523.8	7.0
30°-40°	512.9	6.9
40°-50°	392.6	5.3
50°-60°	261.6	3.5
60°-70°	142.7	1.9
70°-80°	59.5	0.8
80°-90°	16.8	0.2
90°-100°	398.5	5.3
100°-110°	963.0	12.9
110°-120°	1027.1	13.7
120°-130°	831.9	11.1
130°-140°	644.1	8.6
140°-150°	491.3	6.6
150°-160°	355.7	4.8
160°-170°	219.1	2.9
170°-180°	74.2	1.0
0°-30°	1083.6	14.5
0°-40°	1596.5	21.4
0°-60°	2250.6	30.1
0°-90°	2469.7	33.0
90°-120°	2388.6	32.0
90°-150°	4355.8	58.3
90°-180°	5005.0	67.0
0°-180°	7474.4	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	3
95°	39	199	683	444	311	44
105°	154	266	1157	1498	1478	163
115°	282	360	930	1763	1966	278
125°	401	462	807	1402	1647	358
135°	493	550	774	1106	1272	380
145°	583	626	760	940	1013	364
155°	668	697	769	832	863	308
165°	738	750	779	791	802	208
175°	781	778	781	774	773	74
180°	773	773	773	773	773	

TEST NUMBER: P521985

CATALOG NUMBER: SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

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°	13.1	107.9	254.1	123.5	83.8
95°	39.3	199.4	682.7	443.9	311.0
97.5°	69.7	220.8	899.1	866.2	743.6
100°	93.3	234.2	1018.3	1074.9	974.1
102.5°	115.6	246.2	1096.9	1248.7	1188.9
105°	153.9	265.9	1157.4	1497.5	1478.3
107.5°	191.5	289.2	1121.7	1697.1	1742.2
110°	217.7	309.0	1064.1	1783.1	1867.9

TEST NUMBER: P521985

CATALOG NUMBER: SQ4-WB-125U-075D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	243.9	328.8	1013.0	1804.1	1949.1
115°	281.6	360.0	929.9	1762.9	1966.2
117.5°	318.9	392.9	881.1	1668.1	1906.2
120°	343.8	412.6	849.7	1593.7	1843.4
122.5°	370.0	433.7	830.0	1517.6	1763.5
125°	401.1	461.9	807.1	1402.0	1646.9
127.5°	431.9	489.2	791.0	1304.1	1519.2
130°	450.2	506.2	785.8	1235.9	1447.2
132.5°	467.2	525.8	777.9	1186.7	1366.0
135°	492.8	550.4	774.3	1105.6	1272.0
137.5°	517.0	574.9	762.9	1050.6	1176.1
140°	535.3	588.2	762.9	1011.1	1126.3
142.5°	553.7	606.5	756.3	976.6	1073.9
145°	582.8	626.0	759.6	939.7	1013.4
147.5°	610.0	651.9	757.6	897.2	958.0
150°	627.0	663.8	762.9	878.6	926.6
152.5°	645.3	680.9	761.6	858.8	901.7
155°	667.9	696.7	769.4	832.3	862.8
157.5°	695.1	719.8	767.8	822.2	840.2
160°	705.6	726.4	774.3	809.0	821.8
162.5°	722.6	740.9	771.7	805.0	812.7
165°	738.3	749.5	779.3	791.0	802.2
167.5°	757.6	765.0	777.3	790.1	790.4
170°	762.9	767.7	782.5	781.1	789.1
172.5°	772.1	775.6	778.6	782.1	777.3
175°	780.9	777.7	780.9	774.3	772.7
177.5°	779.3	779.3	776.6	773.9	767.5
180°	772.7	772.7	772.7	772.7	772.7

(END OF REPORT)