

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: P522050

Luminaire Tested: **SQ4-WB-150U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522050
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-150U-100D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

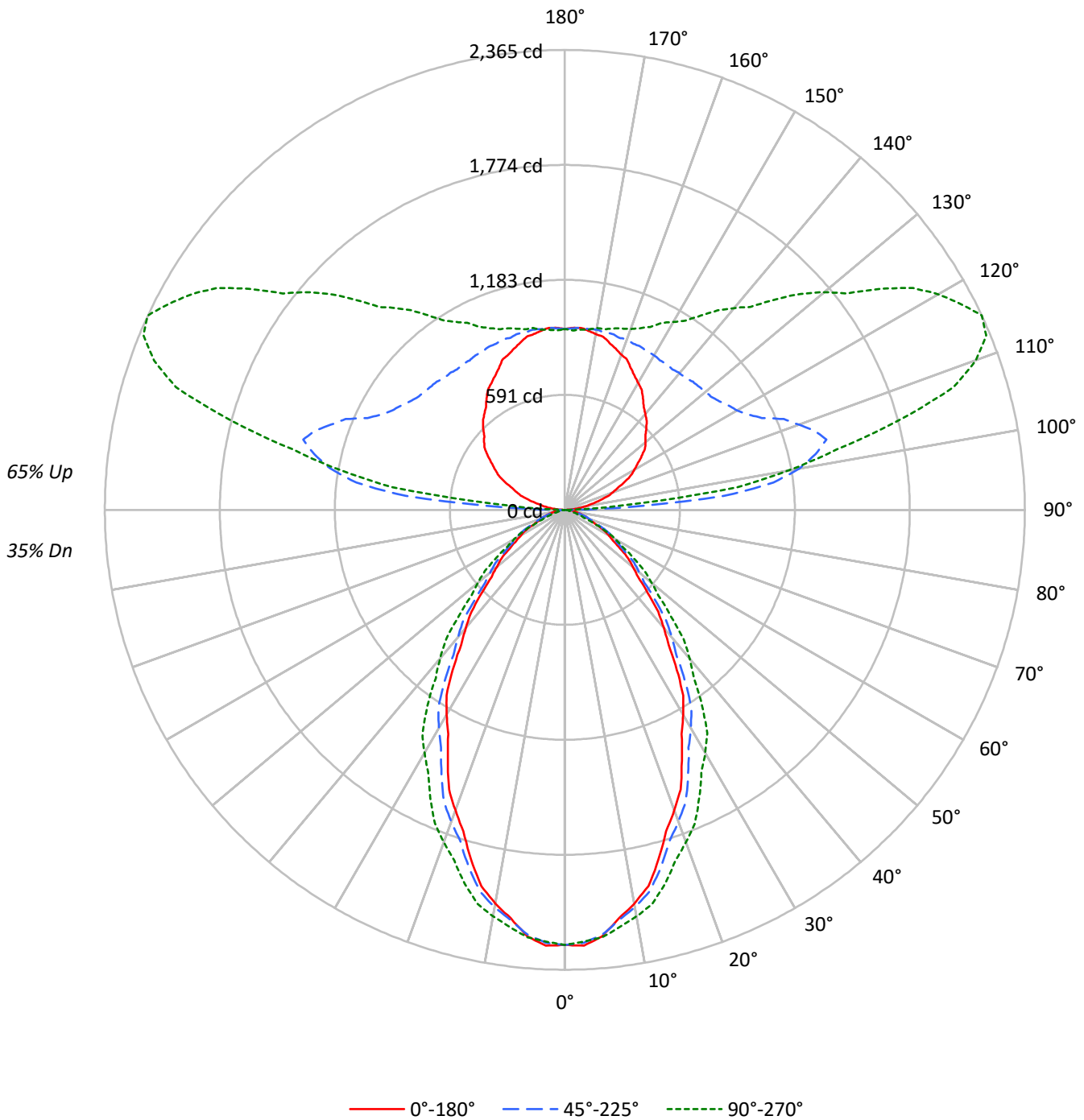
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9281.7 lumens
Efficiency: N/A
Efficacy: 99.3 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): 93.5
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35				
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	37	31				
2	87	81	75	70	79	73	69	65	60	56	54	47	45	43	35	34	33	27				
3	80	72	65	60	72	65	60	55	53	49	46	42	40	37	32	30	29	24				
4	74	64	57	51	67	58	52	47	48	43	40	38	35	33	29	27	26	22				
5	68	57	50	44	62	52	46	41	43	39	35	35	31	29	27	25	23	19				
6	63	52	44	39	57	47	41	36	39	34	31	32	28	26	24	22	21	18				
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16				
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15				
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13				
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20645	20645	20645
5°	20387	20315	20433
10°	19262	19437	19888
15°	17781	18194	19010
20°	16147	16755	17863
25°	14483	15273	16642
30°	12949	13797	15376
35°	11324	12143	13878
40°	9532	10288	12015
45°	7867	8545	10031
50°	6567	7159	8357
55°	5575	6143	6902
60°	4764	5327	5508
65°	3794	4480	3558
70°	3364	3496	2172
75°	3116	2834	1330
80°	2869	2609	1148
85°	2594	2392	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	2.2
10°-20°	533.9	5.8
20°-30°	691.5	7.5
30°-40°	677.1	7.3
40°-50°	518.3	5.6
50°-60°	345.4	3.7
60°-70°	188.5	2.0
70°-80°	78.5	0.8
80°-90°	22.2	0.2
90°-100°	479.4	5.2
100°-110°	1158.6	12.5
110°-120°	1235.7	13.3
120°-130°	1000.8	10.8
130°-140°	774.9	8.3
140°-150°	591.1	6.4
150°-160°	427.9	4.6
160°-170°	263.5	2.8
170°-180°	89.2	1.0
0°-30°	1430.6	15.4
0°-40°	2107.7	22.7
0°-60°	2971.4	32.0
0°-90°	3260.7	35.1
90°-120°	2873.6	31.0
90°-150°	5240.4	56.5
90°-180°	6021.0	64.9
0°-180°	9281.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2201	2179	2194	2199	2206	205
15°	1862	1855	1905	1957	1990	520
25°	1423	1427	1500	1566	1635	654
35°	1005	1010	1078	1151	1232	625
45°	603	614	655	704	769	470
55°	347	361	382	396	429	314
65°	174	188	205	179	163	181
75°	87	87	80	55	37	93
85°	24	24	23	15	9	27
90°	0	0	0	0	0	3
95°	47	240	821	534	374	53
105°	185	320	1392	1802	1778	196
115°	339	433	1119	2121	2365	335
125°	482	556	971	1687	1981	431
135°	593	662	932	1330	1530	458
145°	701	753	914	1131	1219	438
155°	804	838	926	1001	1038	371
165°	888	902	938	952	965	251
175°	940	936	940	932	930	89
180°	930	930	930	930	930	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.7	2237.7	2237.7	2237.7	2237.7
2.5°	2243.2	2223.2	2228.2	2228.1	2222.0
5°	2201.3	2179.3	2193.5	2198.6	2206.2
7.5°	2119.6	2102.9	2128.9	2148.1	2163.6
10°	2056.0	2041.6	2074.7	2102.6	2122.8
12.5°	1982.2	1970.1	2011.1	2048.6	2074.9
15°	1861.6	1854.9	1904.8	1956.6	1990.2
17.5°	1732.6	1729.3	1786.6	1847.1	1890.1
20°	1644.6	1643.7	1706.5	1769.5	1819.4
22.5°	1555.9	1558.0	1624.0	1689.5	1746.3
25°	1422.7	1426.6	1500.3	1565.7	1634.8
27.5°	1299.6	1301.3	1377.6	1446.6	1520.3
30°	1215.5	1220.3	1295.1	1366.5	1443.3
32.5°	1131.5	1137.1	1210.2	1284.1	1362.4
35°	1005.4	1010.2	1078.1	1150.6	1232.2
37.5°	875.4	882.0	942.2	1010.8	1091.0
40°	791.4	801.0	854.2	918.9	997.6
42.5°	710.5	722.4	771.7	833.1	904.1
45°	602.9	614.4	654.9	704.5	768.8
47.5°	510.2	523.4	554.6	597.2	652.2
50°	457.5	470.0	498.8	530.4	582.2
52.5°	411.2	423.7	449.3	473.7	517.8
55°	346.6	361.0	381.9	396.4	429.1
57.5°	293.6	307.4	324.0	330.6	350.3
60°	258.2	273.6	288.7	287.9	298.5
62.5°	226.0	239.1	254.1	243.7	244.3
65°	173.8	188.2	205.2	179.3	163.0
67.5°	140.4	143.5	161.0	125.0	105.6
70°	124.7	124.7	129.6	96.8	80.5
72.5°	109.8	109.8	105.3	78.7	61.7
75°	87.4	87.4	79.5	54.6	37.3
77.5°	67.4	66.6	60.9	40.7	27.1
80°	54.0	54.0	49.1	32.2	21.6
82.5°	42.2	42.2	38.1	25.1	16.1
85°	24.5	24.5	22.6	14.6	8.8
87.5°	8.6	8.6	7.9	4.7	3.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	129.8	305.7	148.6	100.8
95°	47.3	239.8	821.3	534.1	374.2
97.5°	83.9	265.7	1081.7	1042.1	894.6
100°	112.3	281.7	1225.1	1293.2	1171.9
102.5°	139.1	296.2	1319.6	1502.3	1430.3
105°	185.1	319.9	1392.5	1801.6	1778.5
107.5°	230.4	347.9	1349.5	2041.7	2096.0
110°	262.0	371.7	1280.2	2145.2	2247.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.5	395.5	1218.8	2170.5	2345.0
115°	338.8	433.1	1118.7	2120.9	2365.4
117.5°	383.7	472.6	1060.0	2006.8	2293.4
120°	413.6	496.4	1022.2	1917.3	2217.7
122.5°	445.1	521.8	998.6	1825.8	2121.6
125°	482.5	555.7	971.0	1686.7	1981.4
127.5°	519.6	588.5	951.7	1568.9	1827.7
130°	541.6	609.0	945.4	1486.9	1741.1
132.5°	562.1	632.6	935.9	1427.7	1643.4
135°	592.8	662.2	931.6	1330.1	1530.3
137.5°	622.0	691.7	917.8	1263.9	1414.9
140°	644.0	707.6	917.8	1216.4	1355.1
142.5°	666.1	729.7	909.9	1174.9	1292.0
145°	701.2	753.2	913.9	1130.6	1219.2
147.5°	733.9	784.3	911.5	1079.4	1152.6
150°	754.3	798.6	917.8	1057.0	1114.8
152.5°	776.4	819.2	916.2	1033.2	1084.8
155°	803.6	838.2	925.7	1001.4	1038.0
157.5°	836.3	865.9	923.7	989.2	1010.8
160°	848.9	873.9	931.6	973.3	988.7
162.5°	869.4	891.3	928.4	968.4	977.7
165°	888.3	901.8	937.5	951.6	965.1
167.5°	911.5	920.4	935.1	950.5	950.9
170°	917.8	923.6	941.4	939.7	949.3
172.5°	928.8	933.1	936.7	940.9	935.1
175°	939.5	935.6	939.5	931.6	929.6
177.5°	937.5	937.5	934.4	931.0	923.3
180°	929.6	929.6	929.6	929.6	929.6

(END OF REPORT)