

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: P522037

Luminaire Tested: **SQ4-WB-150U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522037
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-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 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

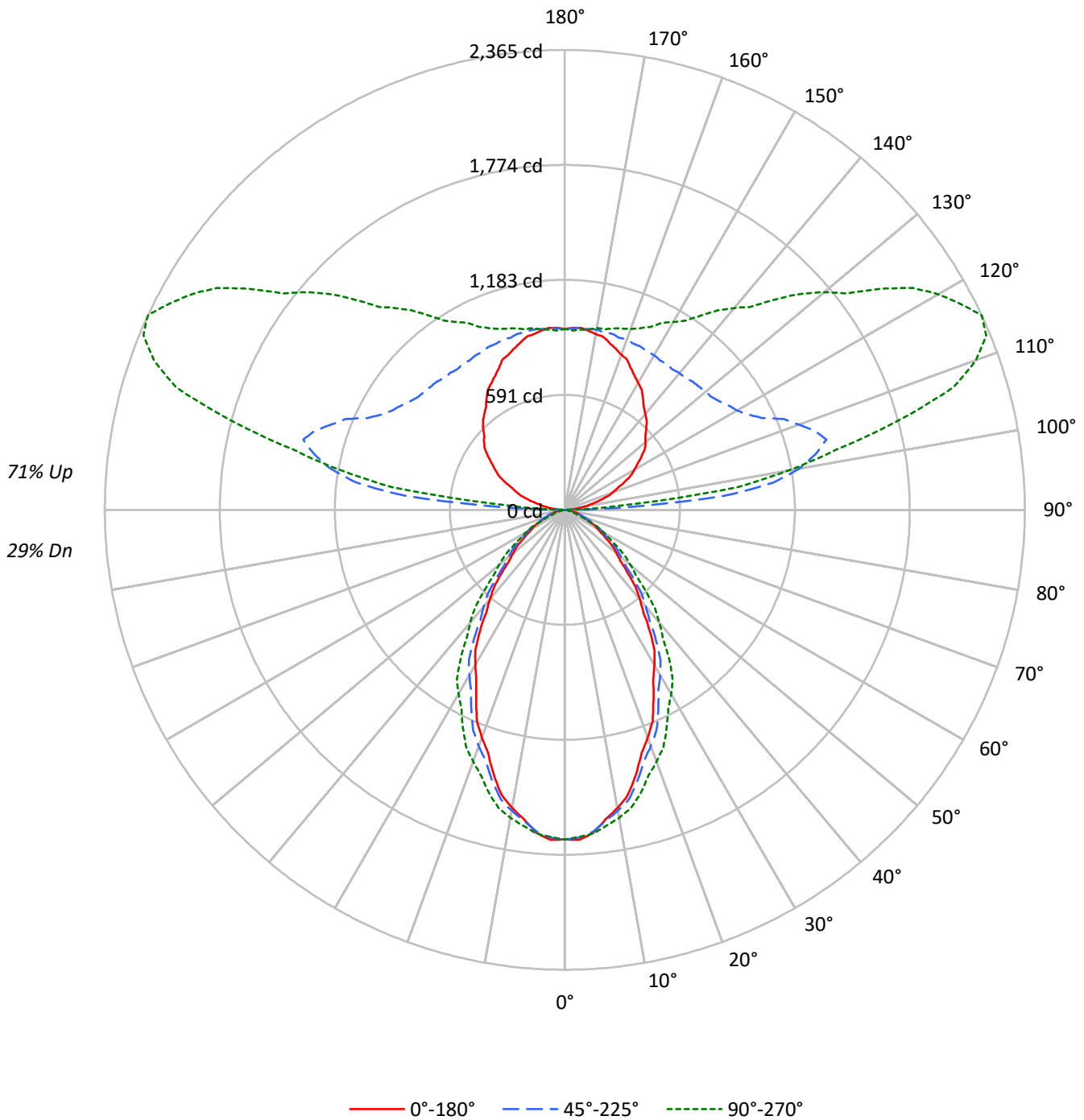
Lumens per Lamp: N/A
Luminaire Lumens: 8490.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.6
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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	32	26
2	86	79	74	69	77	71	67	63	57	53	51	43	41	39	30	29	28	23
3	79	70	64	58	71	63	58	53	51	47	43	39	36	34	28	26	25	20
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	23	22	18
5	67	56	48	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16
6	61	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15
7	57	46	38	33	51	41	35	31	34	29	26	26	23	21	19	18	16	13
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11
10	46	35	28	24	41	32	26	22	26	22	19	21	18	15	16	14	12	10

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	1.8
10°-20°	404.4	4.8
20°-30°	523.8	6.2
30°-40°	512.9	6.0
40°-50°	392.6	4.6
50°-60°	261.6	3.1
60°-70°	142.7	1.7
70°-80°	59.5	0.7
80°-90°	16.8	0.2
90°-100°	479.4	5.6
100°-110°	1158.6	13.6
110°-120°	1235.7	14.6
120°-130°	1000.8	11.8
130°-140°	774.9	9.1
140°-150°	591.1	7.0
150°-160°	427.9	5.0
160°-170°	263.5	3.1
170°-180°	89.2	1.1
0°-30°	1083.6	12.8
0°-40°	1596.5	18.8
0°-60°	2250.6	26.5
0°-90°	2469.7	29.1
90°-120°	2873.6	33.8
90°-150°	5240.4	61.7
90°-180°	6021.0	70.9
0°-180°	8490.7	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°	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°	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°	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)