

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: P522024

Luminaire Tested: **SQ4-WB-150U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522024
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-050D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 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

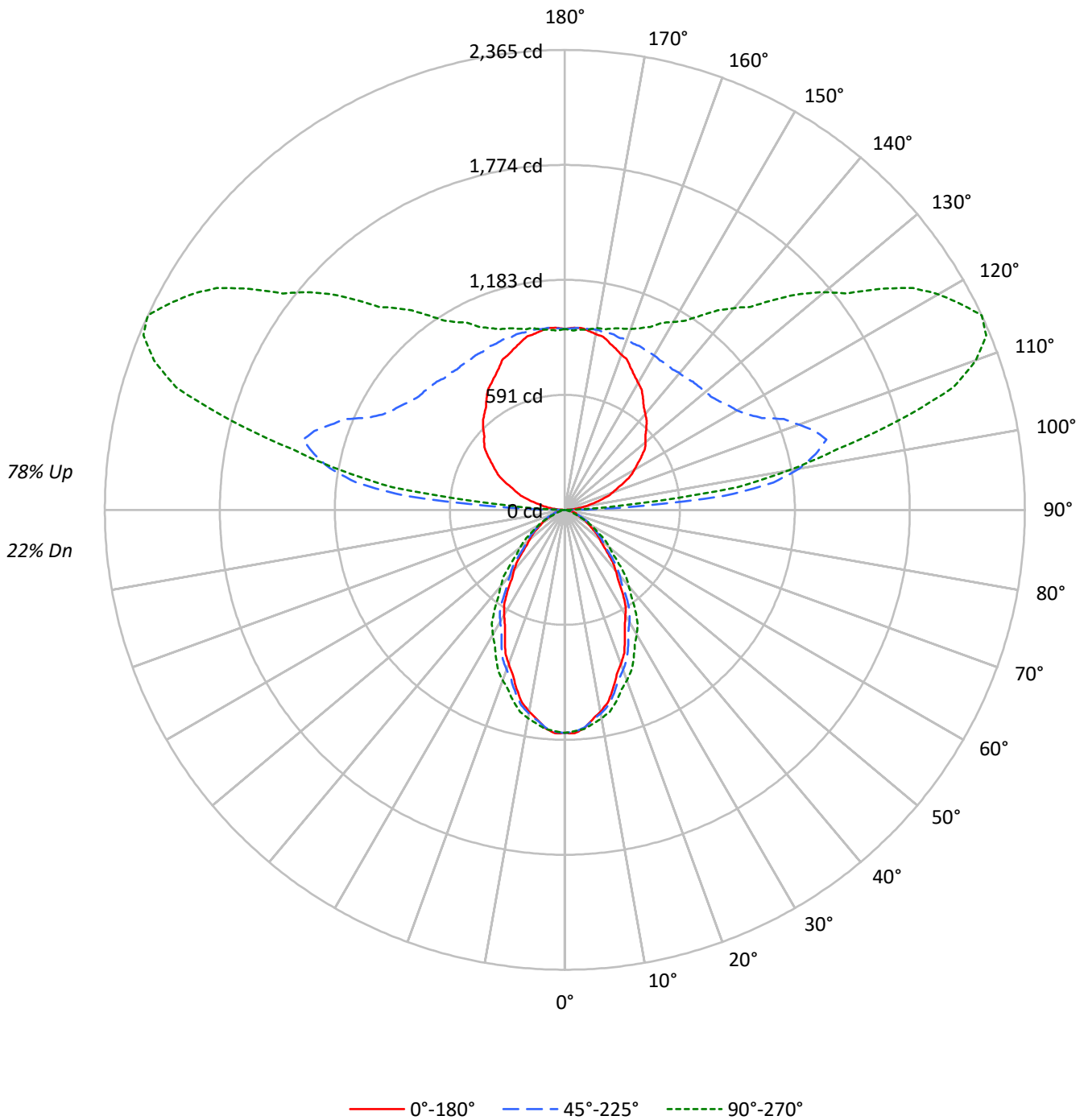
Lumens per Lamp: N/A
Luminaire Lumens: 7692.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.9
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17
3	77	68	62	56	68	61	55	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	62	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	33	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	22	20	17	15	14	11
7	55	44	37	31	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	14	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	13	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10584	10584	10584
5°	10452	10415	10476
10°	9875	9964	10196
15°	9116	9328	9747
20°	8279	8590	9159
25°	7425	7830	8532
30°	6639	7074	7884
35°	5806	6225	7115
40°	4886	5274	6159
45°	4033	4381	5142
50°	3367	3670	4284
55°	2858	3150	3539
60°	2443	2731	2823
65°	1945	2297	1825
70°	1724	1791	1114
75°	1597	1454	681
80°	1472	1339	590
85°	1334	1228	476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.4
10°-20°	273.7	3.6
20°-30°	354.5	4.6
30°-40°	347.2	4.5
40°-50°	265.7	3.5
50°-60°	177.1	2.3
60°-70°	96.6	1.3
70°-80°	40.3	0.5
80°-90°	11.4	0.1
90°-100°	479.4	6.2
100°-110°	1158.6	15.1
110°-120°	1235.7	16.1
120°-130°	1000.8	13.0
130°-140°	774.9	10.1
140°-150°	591.1	7.7
150°-160°	427.9	5.6
160°-170°	263.5	3.4
170°-180°	89.2	1.2
0°-30°	733.4	9.5
0°-40°	1080.6	14.0
0°-60°	1523.4	19.8
0°-90°	1671.7	21.7
90°-120°	2873.6	37.4
90°-150°	5240.4	68.1
90°-180°	6021.0	78.3
0°-180°	7692.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1129	1117	1125	1127	1131	105
15°	954	951	977	1003	1020	267
25°	729	731	769	803	838	335
35°	516	518	553	590	632	320
45°	309	315	336	361	394	241
55°	178	185	196	203	220	161
65°	89	96	105	92	84	93
75°	45	45	41	28	19	48
85°	13	13	12	8	4	14
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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CATALOG NUMBER: SQ4-WB-150U-050D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1150.0	1139.8	1142.4	1142.3	1139.2
5°	1128.6	1117.3	1124.6	1127.2	1131.1
7.5°	1086.7	1078.1	1091.4	1101.3	1109.3
10°	1054.1	1046.7	1063.6	1078.0	1088.3
12.5°	1016.2	1010.0	1031.0	1050.3	1063.7
15°	954.4	951.0	976.6	1003.1	1020.4
17.5°	888.3	886.6	916.0	947.0	969.0
20°	843.2	842.7	874.9	907.2	932.8
22.5°	797.7	798.7	832.6	866.2	895.3
25°	729.4	731.4	769.2	802.7	838.1
27.5°	666.3	667.2	706.2	741.6	779.4
30°	623.2	625.6	664.0	700.6	740.0
32.5°	580.1	583.0	620.5	658.3	698.5
35°	515.5	517.9	552.7	589.9	631.7
37.5°	448.8	452.2	483.0	518.2	559.4
40°	405.7	410.6	437.9	471.1	511.4
42.5°	364.2	370.4	395.7	427.1	463.5
45°	309.1	315.0	335.8	361.2	394.1
47.5°	261.6	268.3	284.3	306.2	334.3
50°	234.6	241.0	255.7	271.9	298.5
52.5°	210.8	217.2	230.3	242.8	265.5
55°	177.7	185.1	195.8	203.2	220.0
57.5°	150.5	157.6	166.1	169.5	179.6
60°	132.4	140.3	148.0	147.6	153.0
62.5°	115.9	122.6	130.3	124.9	125.2
65°	89.1	96.5	105.2	91.9	83.6
67.5°	72.0	73.6	82.6	64.1	54.2
70°	63.9	63.9	66.4	49.6	41.3
72.5°	56.3	56.3	54.0	40.4	31.6
75°	44.8	44.8	40.8	28.0	19.1
77.5°	34.5	34.1	31.2	20.9	13.9
80°	27.7	27.7	25.2	16.5	11.1
82.5°	21.6	21.6	19.5	12.9	8.3
85°	12.6	12.6	11.6	7.5	4.5
87.5°	4.4	4.4	4.0	2.4	2.0
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)