

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: P522063

Luminaire Tested: **SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522063
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-125D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 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

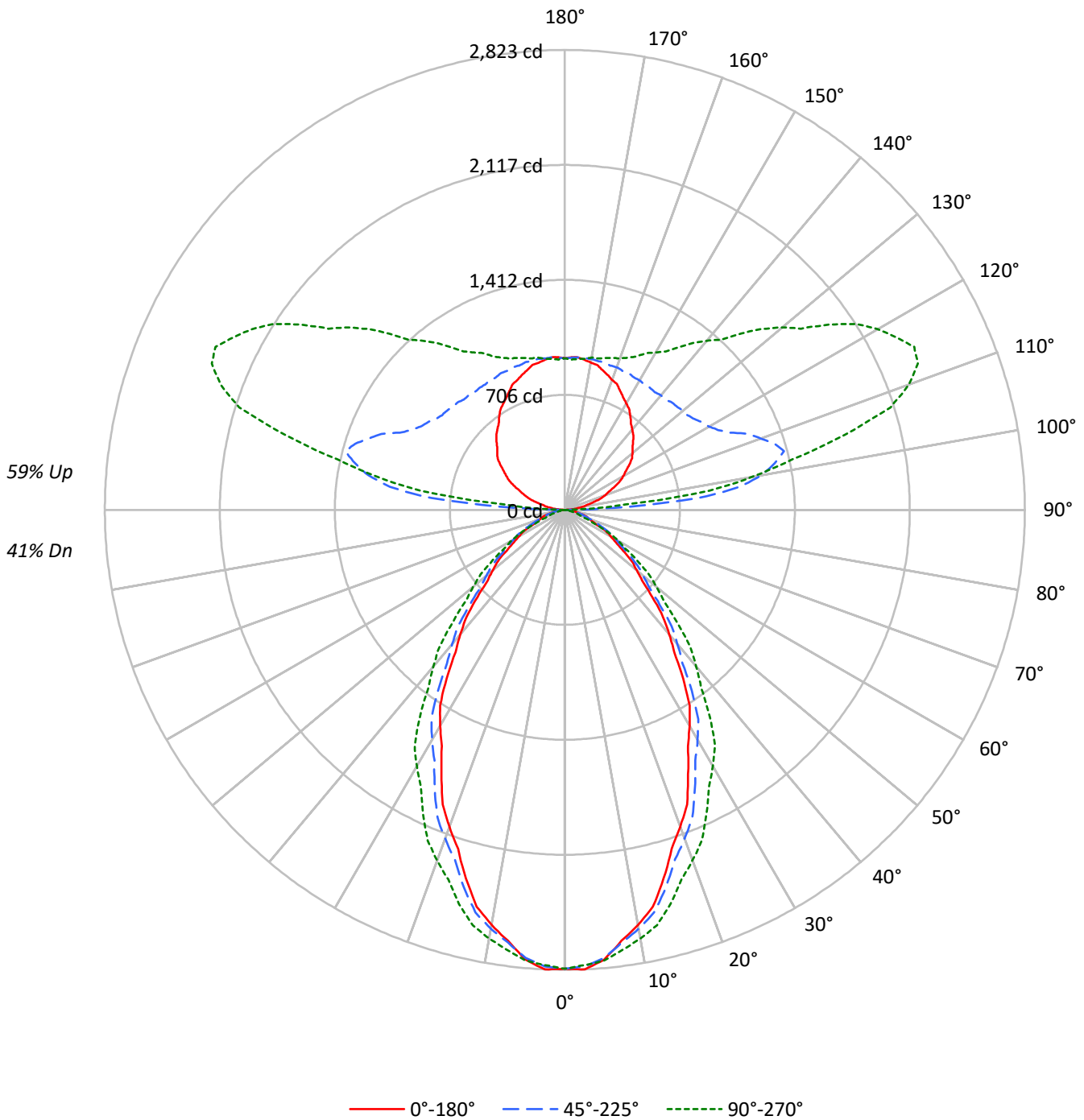
Lumens per Lamp: N/A
Luminaire Lumens: 10125.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 106.5
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	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	60	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	29	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	35	28	24	30	25	22	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25986	25986	25986
5°	25662	25570	25718
10°	24244	24464	25032
15°	22381	22900	23927
20°	20324	21089	22484
25°	18229	19224	20947
30°	16300	17366	19354
35°	14253	15284	17469
40°	11997	12950	15122
45°	9901	10755	12626
50°	8266	9011	10520
55°	7018	7732	8688
60°	5997	6704	6933
65°	4774	5639	4478
70°	4235	4400	2733
75°	3921	3568	1675
80°	3613	3284	1445
85°	3271	3006	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	2.6
10°-20°	671.9	6.6
20°-30°	870.4	8.6
30°-40°	852.3	8.4
40°-50°	652.4	6.4
50°-60°	434.7	4.3
60°-70°	237.2	2.3
70°-80°	98.9	1.0
80°-90°	28.0	0.3
90°-100°	479.4	4.7
100°-110°	1158.6	11.4
110°-120°	1235.7	12.2
120°-130°	1000.8	9.9
130°-140°	774.9	7.7
140°-150°	591.1	5.8
150°-160°	427.9	4.2
160°-170°	263.5	2.6
170°-180°	89.2	0.9
0°-30°	1800.7	17.8
0°-40°	2653.0	26.2
0°-60°	3740.1	36.9
0°-90°	4104.1	40.5
90°-120°	2873.6	28.4
90°-150°	5240.4	51.8
90°-180°	6021.0	59.5
0°-180°	10125.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2771	2743	2761	2767	2777	258
15°	2343	2335	2398	2463	2505	654
25°	1791	1796	1888	1971	2058	824
35°	1266	1272	1357	1448	1551	787
45°	759	773	824	887	968	592
55°	436	454	481	499	540	396
65°	219	237	258	226	205	227
75°	110	110	100	69	47	117
85°	31	31	28	18	11	34
90°	0	0	0	0	0	4
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°	2816.5	2816.5	2816.5	2816.5	2816.5
2.5°	2823.4	2798.3	2804.6	2804.4	2796.7
5°	2770.8	2743.0	2760.9	2767.3	2776.9
7.5°	2667.9	2646.9	2679.5	2703.7	2723.3
10°	2587.8	2569.7	2611.3	2646.5	2671.9
12.5°	2494.9	2479.7	2531.2	2578.5	2611.6
15°	2343.2	2334.7	2397.5	2462.8	2505.0
17.5°	2180.8	2176.7	2248.7	2324.9	2379.0
20°	2070.0	2068.8	2147.9	2227.2	2290.0
22.5°	1958.3	1961.0	2044.1	2126.5	2198.1
25°	1790.7	1795.6	1888.4	1970.7	2057.7
27.5°	1635.8	1637.9	1733.9	1820.8	1913.6
30°	1530.0	1536.0	1630.1	1720.0	1816.7
32.5°	1424.2	1431.2	1523.3	1616.2	1714.9
35°	1265.5	1271.5	1357.0	1448.3	1551.0
37.5°	1101.9	1110.1	1185.9	1272.2	1373.3
40°	996.1	1008.2	1075.2	1156.5	1255.6
42.5°	894.3	909.2	971.4	1048.5	1138.0
45°	758.8	773.3	824.3	886.7	967.7
47.5°	642.1	658.8	698.0	751.7	820.8
50°	575.9	591.6	627.8	667.6	732.9
52.5°	517.6	533.3	565.5	596.2	651.8
55°	436.3	454.4	480.7	499.0	540.1
57.5°	369.5	386.9	407.8	416.1	440.9
60°	325.0	344.4	363.3	362.4	375.7
62.5°	284.5	300.9	319.8	306.8	307.5
65°	218.7	236.9	258.3	225.7	205.1
67.5°	176.7	180.6	202.7	157.4	133.0
70°	157.0	157.0	163.1	121.9	101.3
72.5°	138.2	138.2	132.5	99.1	77.6
75°	110.0	110.0	100.1	68.7	47.0
77.5°	84.8	83.8	76.6	51.3	34.1
80°	68.0	68.0	61.8	40.5	27.2
82.5°	53.1	53.1	48.0	31.6	20.3
85°	30.9	30.9	28.4	18.4	11.1
87.5°	10.9	10.9	9.9	5.9	4.9
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)