

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: P522064

Luminaire Tested: **SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522064  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

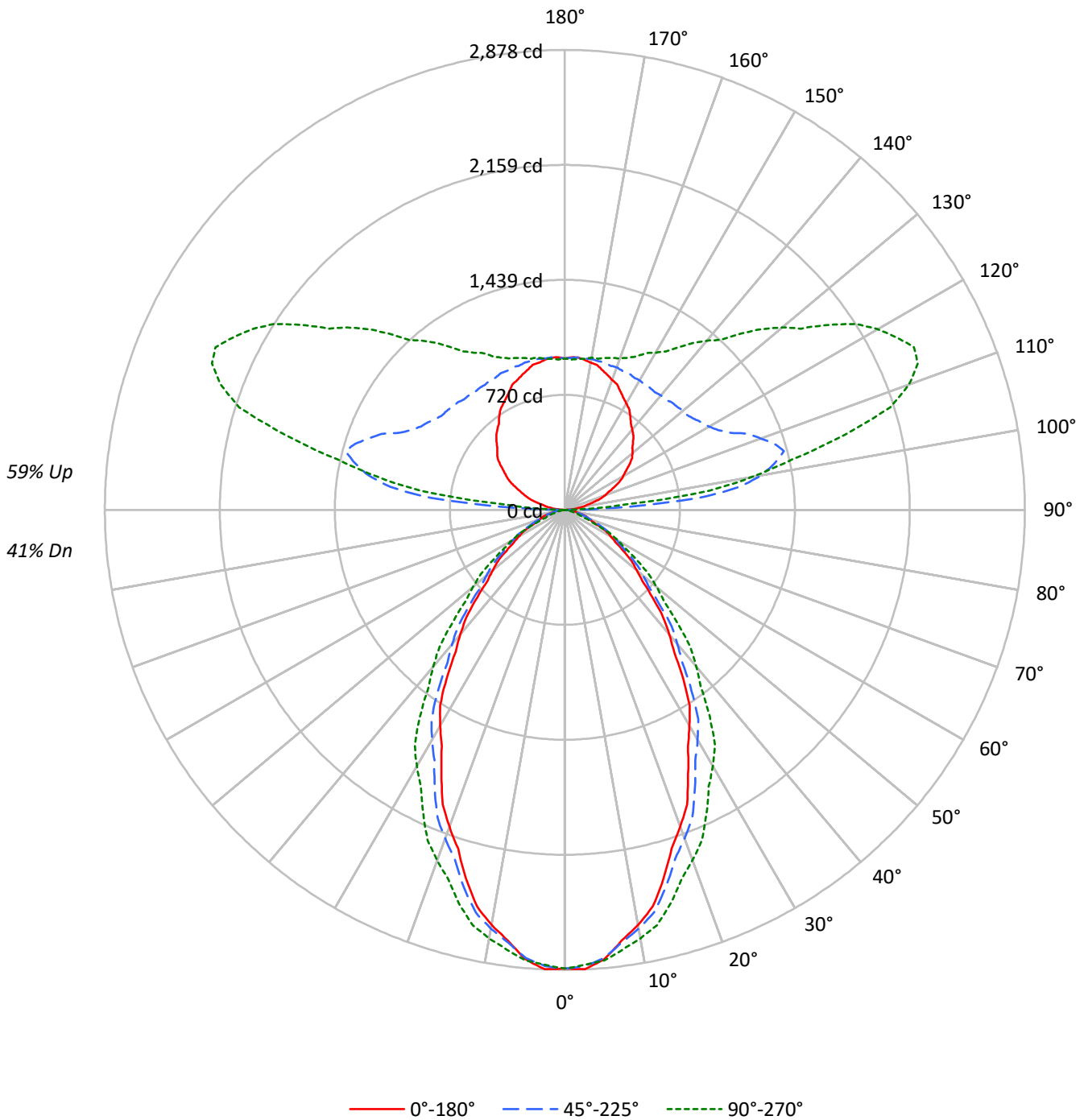
Lumens per Lamp: N/A  
Luminaire Lumens: 10319.0 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 106.6  
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	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°	26483	26483	26483
5°	26152	26059	26211
10°	24709	24932	25511
15°	22809	23339	24385
20°	20714	21492	22915
25°	18578	19591	21348
30°	16612	17699	19725
35°	14526	15576	17804
40°	12227	13198	15413
45°	10090	10961	12868
50°	8424	9183	10721
55°	7152	7880	8853
60°	6111	6833	7065
65°	4866	5746	4565
70°	4316	4486	2787
75°	3996	3636	1708
80°	3682	3347	1472
85°	3335	3070	1196



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.3	2.6
10°-20°	684.8	6.6
20°-30°	887.0	8.6
30°-40°	868.6	8.4
40°-50°	664.9	6.4
50°-60°	443.0	4.3
60°-70°	241.8	2.3
70°-80°	100.7	1.0
80°-90°	28.5	0.3
90°-100°	488.5	4.7
100°-110°	1180.8	11.4
110°-120°	1259.3	12.2
120°-130°	1020.0	9.9
130°-140°	789.7	7.7
140°-150°	602.4	5.8
150°-160°	436.1	4.2
160°-170°	268.6	2.6
170°-180°	90.9	0.9
0°-30°	1835.1	17.8
0°-40°	2703.7	26.2
0°-60°	3811.7	36.9
0°-90°	4182.7	40.5
90°-120°	2928.6	28.4
90°-150°	5340.7	51.8
90°-180°	6136.0	59.5
0°-180°	10319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2870	2870	2870	2870	2870	
5°	2824	2796	2814	2820	2830	263
15°	2388	2379	2443	2510	2553	667
25°	1825	1830	1924	2008	2097	839
35°	1290	1296	1383	1476	1581	802
45°	773	788	840	904	986	603
55°	445	463	490	508	550	403
65°	223	241	263	230	209	232
75°	112	112	102	70	48	120
85°	32	32	29	19	11	34
90°	0	0	0	0	0	4
95°	48	244	837	544	381	54
105°	189	326	1419	1836	1813	199
115°	345	441	1140	2162	2411	341
125°	492	566	990	1719	2019	439
135°	604	675	949	1356	1560	466
145°	715	768	931	1152	1242	447
155°	819	854	943	1020	1058	378
165°	905	919	956	970	984	255
175°	958	954	958	949	947	90
180°	947	947	947	947	947	

TEST NUMBER: P522064

CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2870.4	2870.4	2870.4	2870.4	2870.4
2.5°	2877.5	2851.8	2858.3	2858.1	2850.3
5°	2823.8	2795.5	2813.7	2820.3	2830.1
7.5°	2719.0	2697.6	2730.9	2755.5	2775.4
10°	2637.4	2618.9	2661.3	2697.2	2723.0
12.5°	2542.7	2527.2	2579.7	2627.8	2661.6
15°	2388.0	2379.4	2443.4	2509.9	2553.0
17.5°	2222.5	2218.3	2291.8	2369.4	2424.5
20°	2109.7	2108.4	2189.0	2269.8	2333.9
22.5°	1995.8	1998.5	2083.2	2167.2	2240.2
25°	1825.0	1829.9	1924.5	2008.4	2097.1
27.5°	1667.1	1669.3	1767.1	1855.6	1950.2
30°	1559.3	1565.4	1661.3	1752.9	1851.5
32.5°	1451.5	1458.6	1552.5	1647.2	1747.7
35°	1289.7	1295.9	1382.9	1476.0	1580.7
37.5°	1123.0	1131.3	1208.6	1296.6	1399.6
40°	1015.2	1027.5	1095.8	1178.7	1279.7
42.5°	911.4	926.6	990.0	1068.6	1159.8
45°	773.3	788.1	840.1	903.7	986.2
47.5°	654.4	671.4	711.4	766.1	836.6
50°	586.9	602.9	639.8	680.4	746.9
52.5°	527.5	543.5	576.3	607.6	664.3
55°	444.6	463.1	489.9	508.5	550.4
57.5°	376.6	394.3	415.6	424.0	449.4
60°	331.2	351.0	370.3	369.3	382.9
62.5°	289.9	306.7	326.0	312.6	313.4
65°	222.9	241.4	263.2	230.0	209.1
67.5°	180.1	184.0	206.6	160.4	135.5
70°	160.0	160.0	166.3	124.2	103.3
72.5°	140.8	140.8	135.0	101.0	79.1
75°	112.1	112.1	102.0	70.0	47.9
77.5°	86.4	85.4	78.1	52.2	34.8
80°	69.3	69.3	63.0	41.3	27.7
82.5°	54.2	54.2	48.9	32.2	20.7
85°	31.5	31.5	29.0	18.7	11.3
87.5°	11.1	11.1	10.1	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.1	132.2	311.5	151.4	102.8
95°	48.2	244.4	837.0	544.3	381.4
97.5°	85.5	270.8	1102.4	1062.0	911.7
100°	114.4	287.1	1248.5	1318.0	1194.3
102.5°	141.7	301.9	1344.9	1531.1	1457.7
105°	188.7	326.1	1419.1	1836.1	1812.6
107.5°	234.9	354.6	1375.4	2080.8	2136.1
110°	267.0	378.8	1304.7	2186.3	2290.3

TEST NUMBER: P522064

CATALOG NUMBER: SQ4-WB-150U-125D-93050-1D-UNV-STD-W-4 (3500K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	299.1	403.1	1242.1	2212.0	2389.9
115°	345.3	441.4	1140.1	2161.5	2410.7
117.5°	391.0	481.7	1080.3	2045.2	2337.3
120°	421.5	505.9	1041.8	1954.0	2260.2
122.5°	453.6	531.8	1017.7	1860.8	2162.2
125°	491.8	566.4	989.6	1719.0	2019.3
127.5°	529.5	599.8	969.9	1599.0	1862.7
130°	552.0	620.7	963.5	1515.4	1774.4
132.5°	572.9	644.7	953.9	1455.0	1674.9
135°	604.2	674.8	949.4	1355.5	1559.6
137.5°	633.9	704.9	935.4	1288.2	1442.0
140°	656.4	721.1	935.4	1239.7	1381.0
142.5°	678.9	743.6	927.4	1197.4	1316.8
145°	714.6	767.6	931.4	1152.2	1242.5
147.5°	747.9	799.3	929.0	1100.1	1174.7
150°	768.8	813.9	935.4	1077.2	1136.1
152.5°	791.3	834.8	933.8	1053.0	1105.6
155°	819.0	854.3	943.4	1020.5	1057.8
157.5°	852.3	882.5	941.4	1008.1	1030.1
160°	865.1	890.6	949.4	991.9	1007.7
162.5°	886.0	908.4	946.2	987.0	996.4
165°	905.3	919.0	955.5	969.8	983.6
167.5°	929.0	938.0	953.1	968.7	969.1
170°	935.4	941.3	959.5	957.7	967.5
172.5°	946.6	950.9	954.7	958.9	953.1
175°	957.5	953.5	957.5	949.4	947.4
177.5°	955.5	955.5	952.2	948.9	941.0
180°	947.4	947.4	947.4	947.4	947.4

(END OF REPORT)