

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: P521960

Luminaire Tested: **SQ4-WB-100U-125D-93050-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521960
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-100U-125D-93050-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

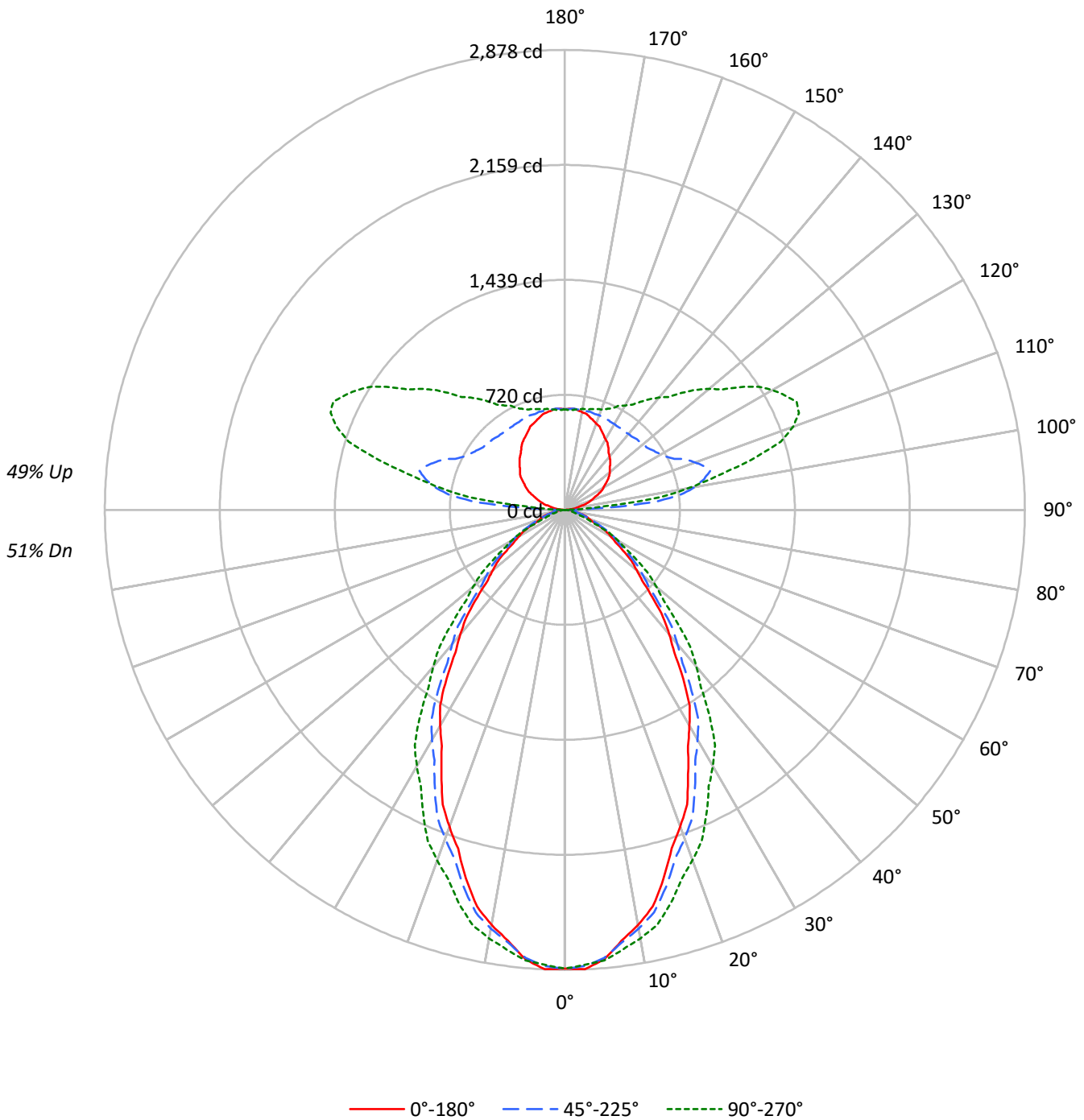
Lumens per Lamp: N/A
Luminaire Lumens: 8254.8 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 87.9
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	95	92	89	91	88	85	83	75	73	71	63	62	60	52	51	50	45
2	91	85	79	74	84	79	74	70	67	64	61	57	54	52	47	46	44	40
3	84	75	69	63	78	70	64	60	60	56	53	51	48	46	43	41	39	35
4	78	68	60	55	72	63	57	52	55	50	46	47	43	40	39	37	35	31
5	72	61	53	48	66	57	50	45	49	44	41	43	39	36	36	33	31	28
6	66	55	48	42	61	52	45	40	45	40	36	39	35	32	33	30	28	25
7	62	50	43	38	57	47	41	36	41	36	32	36	32	29	31	28	25	23
8	58	46	39	34	53	43	37	32	38	33	29	33	29	26	29	26	23	21
9	54	42	35	31	50	40	34	29	35	30	27	31	27	24	27	24	21	19
10	51	39	32	28	47	37	31	27	33	28	24	29	25	22	25	22	20	18

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	3.2
10°-20°	684.8	8.3
20°-30°	887.0	10.7
30°-40°	868.6	10.5
40°-50°	664.9	8.1
50°-60°	443.0	5.4
60°-70°	241.8	2.9
70°-80°	100.7	1.2
80°-90°	28.5	0.3
90°-100°	324.2	3.9
100°-110°	783.5	9.5
110°-120°	835.7	10.1
120°-130°	676.8	8.2
130°-140°	524.0	6.3
140°-150°	399.8	4.8
150°-160°	289.4	3.5
160°-170°	178.2	2.2
170°-180°	60.4	0.7
0°-30°	1835.1	22.2
0°-40°	2703.7	32.8
0°-60°	3811.7	46.2
0°-90°	4182.7	50.7
90°-120°	1943.4	23.5
90°-150°	3544.1	42.9
90°-180°	4072.0	49.3
0°-180°	8254.8	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	3
95°	32	162	556	361	253	36
105°	125	216	942	1218	1203	132
115°	229	293	757	1434	1600	227
125°	326	376	657	1141	1340	291
135°	401	448	630	900	1035	310
145°	474	509	618	765	824	296
155°	544	567	626	677	702	251
165°	601	610	634	644	653	170
175°	635	633	635	630	629	60
180°	629	629	629	629	629	



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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°	10.7	87.8	206.7	100.5	68.2
95°	32.0	162.2	555.5	361.2	253.1
97.5°	56.7	179.7	731.5	704.8	605.0
100°	75.9	190.5	828.5	874.6	792.6
102.5°	94.0	200.3	892.5	1016.0	967.3
105°	125.2	216.4	941.7	1218.4	1202.8
107.5°	155.8	235.3	912.7	1380.8	1417.5
110°	177.2	251.4	865.8	1450.8	1519.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	198.5	267.5	824.3	1467.9	1585.9
115°	229.1	292.9	756.6	1434.3	1599.8
117.5°	259.5	319.6	716.9	1357.2	1551.0
120°	279.7	335.7	691.3	1296.7	1499.9
122.5°	301.0	352.9	675.3	1234.8	1434.9
125°	326.3	375.8	656.7	1140.7	1340.0
127.5°	351.4	398.0	643.6	1061.1	1236.1
130°	366.3	411.9	639.4	1005.6	1177.5
132.5°	380.2	427.8	633.0	965.6	1111.4
135°	400.9	447.8	630.0	899.5	1035.0
137.5°	420.7	467.8	620.7	854.8	956.9
140°	435.6	478.6	620.7	822.7	916.4
142.5°	450.5	493.5	615.4	794.6	873.8
145°	474.2	509.4	618.1	764.6	824.5
147.5°	496.3	530.4	616.5	730.0	779.5
150°	510.2	540.1	620.7	714.9	753.9
152.5°	525.1	554.0	619.7	698.8	733.7
155°	543.5	566.9	626.0	677.2	702.0
157.5°	565.6	585.6	624.7	669.0	683.6
160°	574.1	591.0	630.0	658.3	668.7
162.5°	588.0	602.8	627.9	655.0	661.2
165°	600.7	609.9	634.0	643.6	652.7
167.5°	616.5	622.4	632.4	642.8	643.1
170°	620.7	624.6	636.7	635.5	642.0
172.5°	628.2	631.0	633.5	636.4	632.4
175°	635.4	632.8	635.4	630.0	628.7
177.5°	634.0	634.0	631.9	629.7	624.5
180°	628.7	628.7	628.7	628.7	628.7

(END OF REPORT)