

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519133

Luminaire Tested: **SQ4-WB-050U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519133
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-050U-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

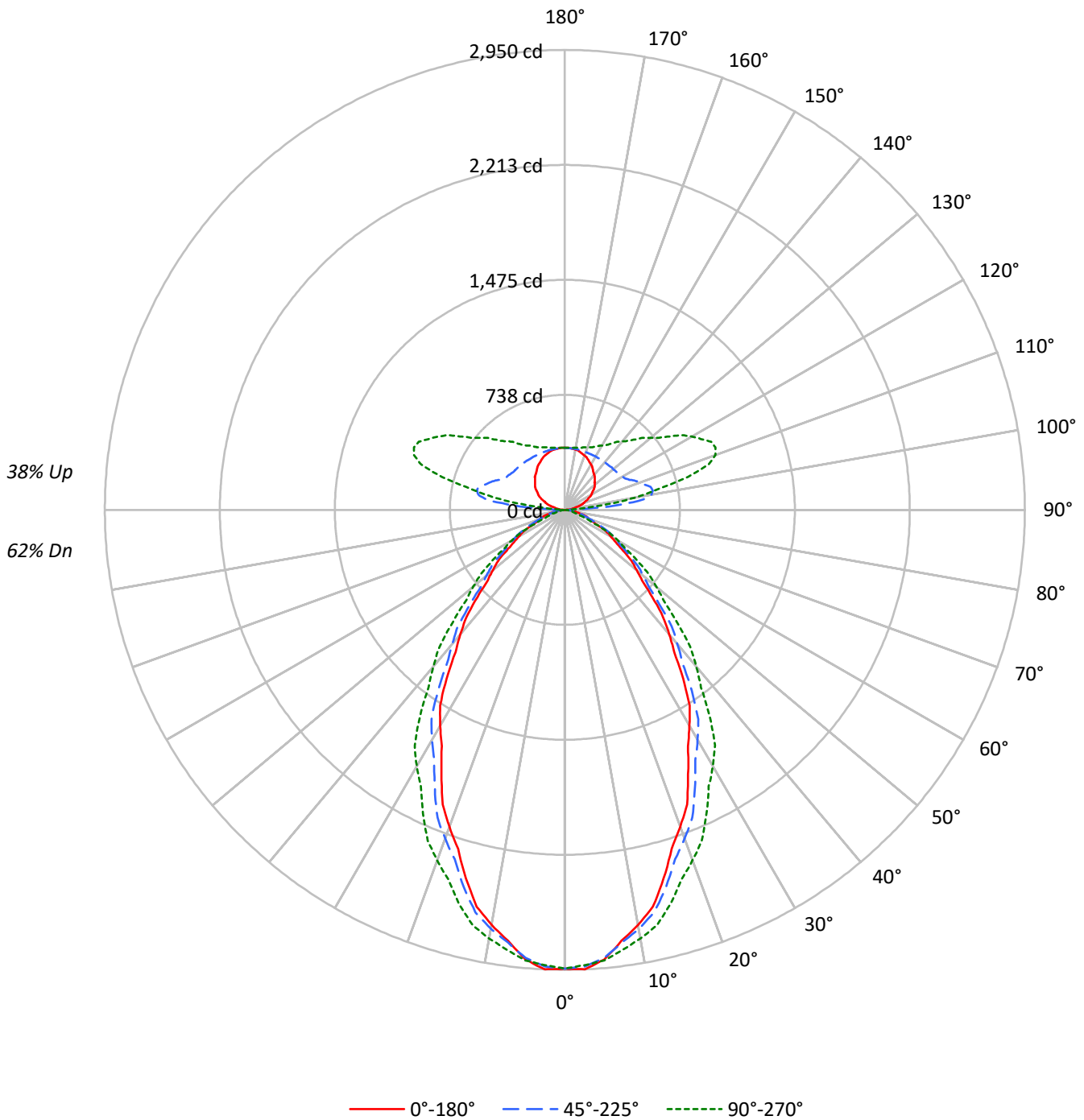
Lumens per Lamp: N/A
Luminaire Lumens: 6886.2 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	102	98	95	92	95	92	89	87	81	79	77	71	70	68	62	61	60	55
2	94	87	82	77	88	82	78	73	73	69	66	64	62	59	56	54	53	49
3	87	78	72	66	81	74	68	63	66	61	57	58	55	52	51	49	47	43
4	80	70	63	58	75	67	60	55	60	54	50	53	49	46	47	44	41	38
5	74	64	56	51	70	60	54	49	54	49	45	48	44	41	43	40	37	34
6	69	58	50	45	65	55	48	43	50	44	40	44	40	37	40	36	34	31
7	64	53	45	40	61	50	44	39	45	40	36	41	37	33	37	33	31	28
8	60	49	41	36	57	46	40	35	42	36	33	38	33	30	34	31	28	26
9	56	45	38	33	53	43	36	32	39	33	30	35	31	28	32	28	26	24
10	53	41	35	30	50	40	33	29	36	31	27	33	29	25	30	26	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8795
50°	5759	6277	7328
55°	4888	5386	6051
60°	4178	4671	4830
65°	3327	3928	3120
70°	2949	3066	1904
75°	2731	2486	1167
80°	2515	2288	1006
85°	2279	2096	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	3.9
10°-20°	702.1	10.2
20°-30°	909.5	13.2
30°-40°	890.6	12.9
40°-50°	681.7	9.9
50°-60°	454.2	6.6
60°-70°	247.9	3.6
70°-80°	103.3	1.5
80°-90°	30.8	0.4
90°-100°	190.9	2.8
100°-110°	518.5	7.5
110°-120°	533.1	7.7
120°-130°	426.2	6.2
130°-140°	334.9	4.9
140°-150°	256.8	3.7
150°-160°	184.7	2.7
160°-170°	112.9	1.6
170°-180°	38.1	0.6
0°-30°	1881.5	27.3
0°-40°	2772.1	40.3
0°-60°	3908.1	56.8
0°-90°	4290.0	62.3
90°-120°	1242.5	18.0
90°-150°	2260.4	32.8
90°-180°	2596.0	37.7
0°-180°	6886.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2895	2866	2885	2892	2902	269
15°	2448	2440	2505	2573	2618	684
25°	1871	1876	1973	2059	2150	861
35°	1322	1329	1418	1513	1621	822
45°	793	808	861	926	1011	618
55°	456	475	502	521	564	413
65°	229	248	270	236	214	238
75°	115	115	105	72	49	123
85°	32	32	30	19	12	35
90°	1	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

TEST NUMBER: P519133

CATALOG NUMBER: SQ4-WB-050U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2950.2	2924.0	2930.6	2930.4	2922.3
5°	2895.2	2866.2	2884.9	2891.6	2901.7
7.5°	2787.8	2765.8	2799.9	2825.2	2845.6
10°	2704.1	2685.2	2728.6	2765.4	2791.9
12.5°	2607.0	2591.1	2645.0	2694.3	2728.9
15°	2448.4	2439.6	2505.2	2573.4	2617.6
17.5°	2278.7	2274.4	2349.8	2429.3	2485.9
20°	2163.0	2161.8	2244.4	2327.2	2392.9
22.5°	2046.3	2049.1	2135.9	2222.1	2296.8
25°	1871.2	1876.2	1973.2	2059.2	2150.1
27.5°	1709.2	1711.5	1811.8	1902.6	1999.5
30°	1598.7	1605.0	1703.3	1797.3	1898.3
32.5°	1488.2	1495.5	1591.7	1688.9	1791.9
35°	1322.3	1328.7	1417.9	1513.3	1620.7
37.5°	1151.4	1160.0	1239.2	1329.4	1435.0
40°	1040.8	1053.5	1123.5	1208.5	1312.0
42.5°	934.4	950.1	1015.0	1095.6	1189.1
45°	792.9	808.0	861.3	926.5	1011.1
47.5°	671.0	688.4	729.4	785.5	857.7
50°	601.8	618.2	656.0	697.6	765.8
52.5°	540.8	557.2	590.9	623.0	681.1
55°	455.8	474.8	502.3	521.4	564.3
57.5°	386.1	404.3	426.1	434.7	460.8
60°	339.6	359.8	379.7	378.7	392.6
62.5°	297.3	314.4	334.2	320.5	321.3
65°	228.6	247.5	269.9	235.8	214.4
67.5°	184.7	188.7	211.8	164.5	139.0
70°	164.0	164.0	170.5	127.4	105.9
72.5°	144.4	144.4	138.4	103.6	81.1
75°	114.9	114.9	104.6	71.8	49.1
77.5°	88.6	87.6	80.1	53.6	35.6
80°	71.0	71.0	64.6	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.6	12.4	12.1	8.5	7.5
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2

TEST NUMBER: P519133

CATALOG NUMBER: SQ4-WB-050U-100D-935-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)