

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: P518986

Luminaire Tested: **SQ4-WB-025U-050D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518986
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-050D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

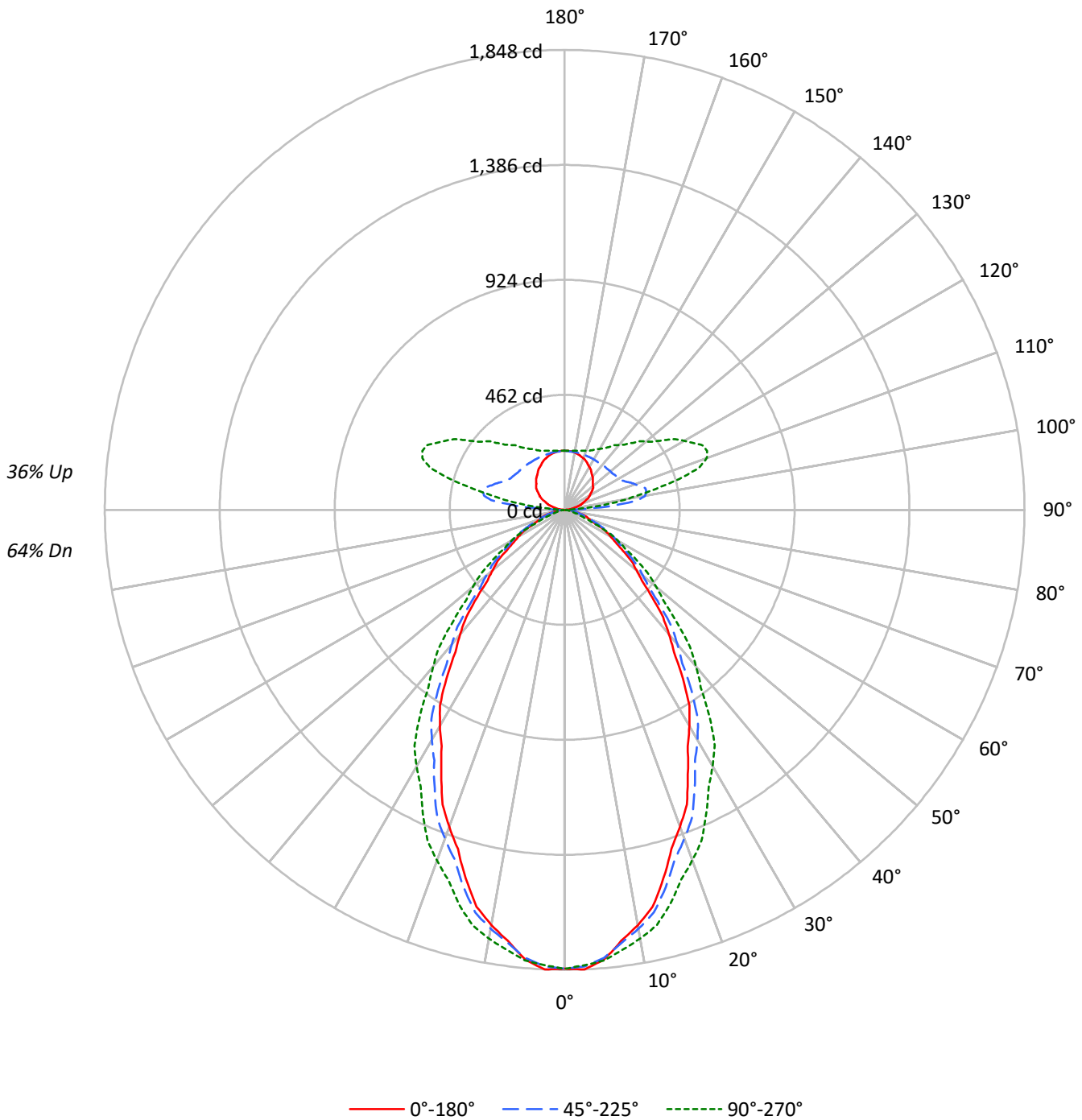
Lumens per Lamp: N/A
Luminaire Lumens: 4225.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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				
RC	80					70					50					30				
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	104	104	104	104	91	91	91	79	79	79	69	69	69	64		
1	102	98	95	92	96	93	90	87	82	80	78	72	70	69	63	62	61	56		
2	94	88	82	78	89	83	78	74	74	70	67	65	62	60	57	55	54	50		
3	87	79	72	67	82	74	68	64	66	62	58	59	56	53	52	50	47	44		
4	81	71	63	58	76	67	61	56	60	55	51	54	50	47	48	45	42	39		
5	75	64	56	51	70	61	54	49	55	49	45	49	45	41	44	41	38	35		
6	69	58	51	45	65	55	48	44	50	44	40	45	41	37	40	37	34	32		
7	65	53	46	40	61	51	44	39	46	40	36	42	37	34	37	34	31	29		
8	60	49	41	36	57	47	40	35	42	37	33	38	34	31	35	31	28	26		
9	57	45	38	33	53	43	37	32	39	34	30	36	31	28	32	29	26	24		
10	53	42	35	30	50	40	34	29	37	31	28	33	29	26	30	27	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8506	8506	8506
5°	8400	8370	8419
10°	7937	8008	8194
15°	7326	7497	7832
20°	6653	6903	7360
25°	5968	6293	6857
30°	5336	5685	6336
35°	4666	5003	5718
40°	3927	4239	4950
45°	3241	3521	4133
50°	2706	2950	3443
55°	2297	2531	2844
60°	1963	2195	2270
65°	1563	1846	1466
70°	1387	1440	894
75°	1283	1167	547
80°	1182	1076	473
85°	1069	984	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	4.0
10°-20°	439.9	10.4
20°-30°	569.8	13.5
30°-40°	558.0	13.2
40°-50°	427.1	10.1
50°-60°	284.6	6.7
60°-70°	155.3	3.7
70°-80°	64.7	1.5
80°-90°	19.6	0.5
90°-100°	115.6	2.7
100°-110°	303.9	7.2
110°-120°	315.1	7.5
120°-130°	252.8	6.0
130°-140°	198.3	4.7
140°-150°	152.2	3.6
150°-160°	109.6	2.6
160°-170°	67.1	1.6
170°-180°	22.7	0.5
0°-30°	1178.9	27.9
0°-40°	1736.9	41.1
0°-60°	2448.6	57.9
0°-90°	2688.2	63.6
90°-120°	734.6	17.4
90°-150°	1337.9	31.7
90°-180°	1537.0	36.4
0°-180°	4225.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1844	1844	1844	1844	1844	
5°	1814	1796	1808	1812	1818	169
15°	1534	1528	1570	1612	1640	428
25°	1172	1176	1236	1290	1347	539
35°	828	832	888	948	1015	515
45°	497	506	540	580	634	387
55°	286	298	315	327	354	259
65°	143	155	169	148	134	149
75°	72	72	66	45	31	77
85°	20	20	19	12	7	22
90°	2	4	12	6	6	2
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1843.9	1843.9	1843.9	1843.9	1843.9
2.5°	1848.5	1832.0	1836.2	1836.1	1831.0
5°	1814.0	1795.8	1807.5	1811.7	1818.0
7.5°	1746.7	1732.9	1754.3	1770.1	1782.9
10°	1694.3	1682.4	1709.6	1732.7	1749.3
12.5°	1633.4	1623.4	1657.2	1688.1	1709.8
15°	1534.0	1528.5	1569.7	1612.4	1640.0
17.5°	1427.7	1425.0	1472.2	1522.1	1557.5
20°	1355.2	1354.4	1406.2	1458.1	1499.3
22.5°	1282.1	1283.8	1338.2	1392.2	1439.1
25°	1172.4	1175.5	1236.3	1290.2	1347.1
27.5°	1070.9	1072.3	1135.2	1192.0	1252.8
30°	1001.7	1005.6	1067.2	1126.1	1189.4
32.5°	932.4	937.0	997.3	1058.1	1122.7
35°	828.5	832.5	888.4	948.2	1015.4
37.5°	721.4	726.8	776.4	832.9	899.1
40°	652.1	660.0	703.9	757.2	822.0
42.5°	585.5	595.3	636.0	686.5	745.0
45°	496.8	506.3	539.7	580.5	633.5
47.5°	420.4	431.3	457.0	492.2	537.4
50°	377.0	387.3	411.0	437.1	479.8
52.5°	338.9	349.1	370.2	390.3	426.7
55°	285.6	297.5	314.7	326.7	353.6
57.5°	241.9	253.3	267.0	272.4	288.7
60°	212.8	225.5	237.9	237.3	246.0
62.5°	186.3	197.0	209.4	200.8	201.3
65°	143.2	155.1	169.1	147.8	134.3
67.5°	115.7	118.2	132.7	103.0	87.1
70°	102.8	102.8	106.8	79.8	66.3
72.5°	90.5	90.5	86.7	64.9	50.8
75°	72.0	72.0	65.5	45.0	30.7
77.5°	55.5	54.9	50.2	33.6	22.3
80°	44.5	44.5	40.5	26.5	17.8
82.5°	34.8	34.8	31.4	20.7	13.3
85°	20.2	20.2	18.6	12.0	7.3
87.5°	7.4	8.0	8.9	5.1	4.5
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)