

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: P519105

Luminaire Tested: **SQ4-WB-050U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519105
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-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

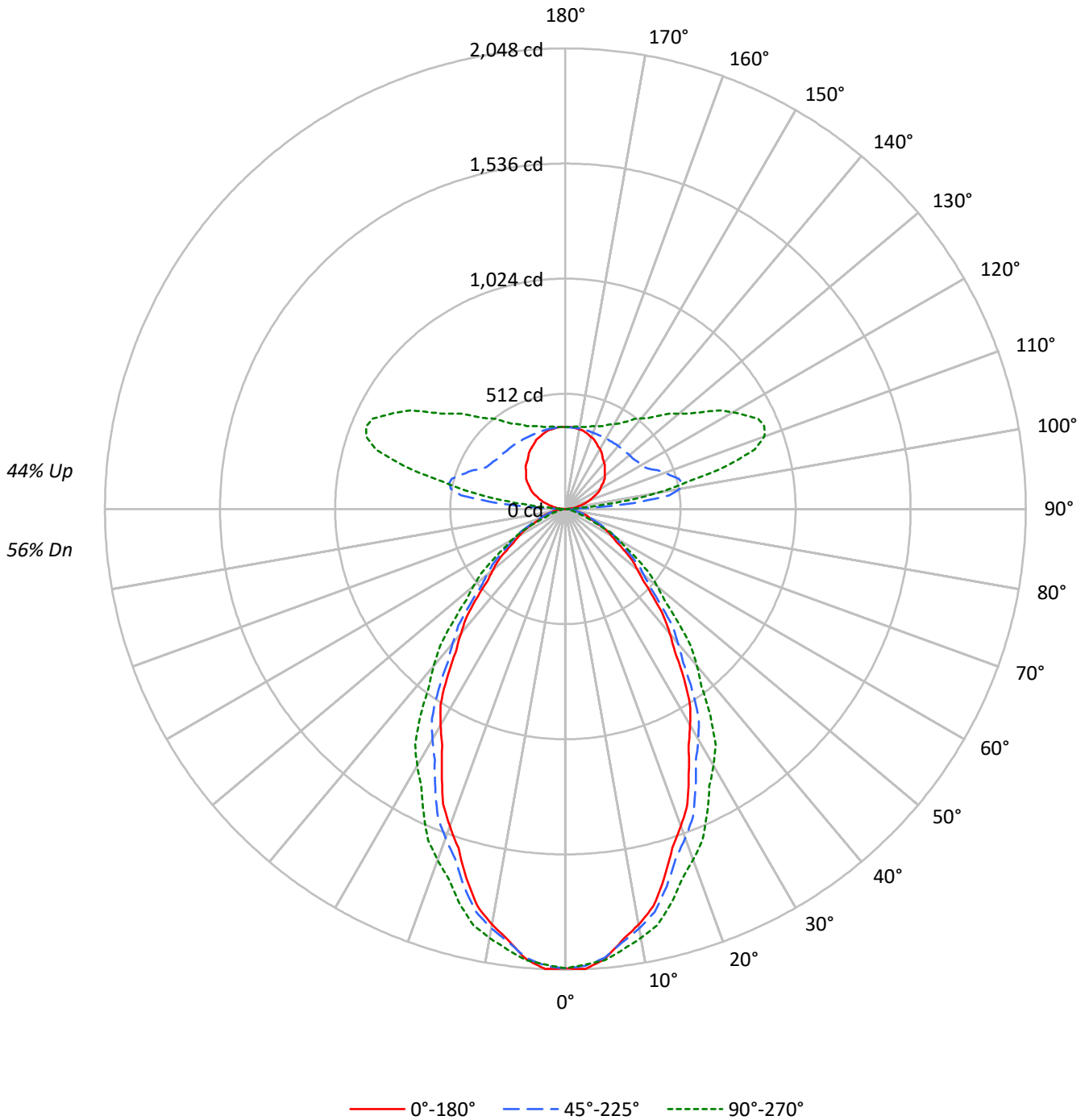
Lumens per Lamp: N/A
Luminaire Lumens: 5355.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	100	96	93	90	93	90	87	84	78	76	74	66	65	64	56	55	54	49
2	92	86	80	76	86	80	75	71	70	66	63	60	57	55	51	49	48	43
3	85	77	70	65	79	72	66	61	63	58	55	54	51	48	46	44	42	38
4	79	69	62	56	73	65	58	53	57	52	48	49	46	43	42	40	38	34
5	73	62	55	49	68	58	52	47	51	46	42	45	41	38	39	36	34	31
6	68	56	49	43	63	53	46	41	47	42	38	41	37	34	36	33	30	28
7	63	51	44	39	59	49	42	37	43	38	34	38	34	31	33	30	28	25
8	59	47	40	35	55	45	38	33	40	34	31	35	31	28	31	28	25	23
9	55	43	36	31	51	41	35	30	37	32	28	33	29	26	29	26	23	21
10	52	40	33	29	48	38	32	28	34	29	26	30	26	23	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12562	12562	12562
5°	12406	12362	12434
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4357	5085
55°	3393	3738	4199
60°	2899	3241	3351
65°	2308	2726	2166
70°	2047	2127	1322
75°	1896	1725	810
80°	1746	1587	698
85°	1581	1454	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	3.5
10°-20°	487.3	9.1
20°-30°	631.2	11.8
30°-40°	618.1	11.5
40°-50°	473.1	8.8
50°-60°	315.2	5.9
60°-70°	172.0	3.2
70°-80°	71.7	1.3
80°-90°	21.7	0.4
90°-100°	174.8	3.3
100°-110°	474.9	8.9
110°-120°	488.2	9.1
120°-130°	390.4	7.3
130°-140°	306.7	5.7
140°-150°	235.2	4.4
150°-160°	169.1	3.2
160°-170°	103.4	1.9
170°-180°	34.8	0.7
0°-30°	1305.8	24.4
0°-40°	1923.9	35.9
0°-60°	2712.2	50.6
0°-90°	2977.6	55.6
90°-120°	1137.9	21.2
90°-150°	2070.2	38.7
90°-180°	2378.0	44.4
0°-180°	5355.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2009	1989	2002	2007	2014	187
15°	1699	1693	1739	1786	1817	475
25°	1299	1302	1369	1429	1492	597
35°	918	922	984	1050	1125	571
45°	550	561	598	643	702	429
55°	316	330	349	362	392	287
65°	159	172	187	164	149	165
75°	80	80	73	50	34	85
85°	22	22	21	13	8	24
90°	1	5	8	10	10	3
95°	26	96	304	132	89	27
105°	84	131	522	795	748	90
115°	150	182	418	832	947	148
125°	206	235	378	637	752	184
135°	248	276	368	519	585	192
145°	287	308	363	441	474	180
155°	324	336	361	396	408	150
165°	351	356	362	377	378	99
175°	364	365	363	368	366	35
180°	364	364	364	364	364	

TEST NUMBER: P519105

CATALOG NUMBER: SQ4-WB-050U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.4	2042.4	2042.4	2042.4	2042.4
2.5°	2047.5	2029.2	2033.8	2033.7	2028.1
5°	2009.3	1989.1	2002.1	2006.8	2013.8
7.5°	1934.7	1919.5	1943.1	1960.7	1974.9
10°	1876.6	1863.5	1893.7	1919.2	1937.6
12.5°	1809.3	1798.2	1835.6	1869.8	1893.9
15°	1699.2	1693.1	1738.6	1785.9	1816.6
17.5°	1581.4	1578.5	1630.7	1685.9	1725.2
20°	1501.1	1500.3	1557.6	1615.1	1660.7
22.5°	1420.1	1422.0	1482.3	1542.1	1594.0
25°	1298.6	1302.1	1369.4	1429.1	1492.2
27.5°	1186.2	1187.8	1257.4	1320.4	1387.7
30°	1109.5	1113.9	1182.1	1247.3	1317.4
32.5°	1032.8	1037.9	1104.7	1172.1	1243.6
35°	917.7	922.1	984.0	1050.2	1124.7
37.5°	799.1	805.0	860.0	922.6	995.9
40°	722.3	731.1	779.7	838.7	910.5
42.5°	648.5	659.4	704.4	760.4	825.2
45°	550.3	560.8	597.8	643.0	701.7
47.5°	465.7	477.8	506.2	545.1	595.3
50°	417.6	429.0	455.3	484.1	531.4
52.5°	375.3	386.7	410.1	432.3	472.7
55°	316.4	329.5	348.6	361.8	391.6
57.5°	268.0	280.6	295.7	301.7	319.8
60°	235.7	249.7	263.5	262.8	272.4
62.5°	206.3	218.2	231.9	222.4	223.0
65°	158.6	171.8	187.3	163.7	148.8
67.5°	128.2	131.0	147.0	114.1	96.4
70°	113.8	113.8	118.3	88.4	73.5
72.5°	100.2	100.2	96.1	71.9	56.3
75°	79.8	79.8	72.6	49.8	34.1
77.5°	61.5	60.8	55.6	37.2	24.7
80°	49.3	49.3	44.8	29.4	19.7
82.5°	38.5	38.5	34.8	22.9	14.7
85°	22.4	22.4	20.6	13.3	8.1
87.5°	8.1	8.8	8.8	6.4	5.7
90°	1.2	4.6	8.2	10.5	10.5
92.5°	10.5	47.9	83.1	35.7	30.2
95°	25.8	95.6	304.4	132.5	89.0
97.5°	42.6	105.6	466.7	363.1	255.0
100°	53.9	112.2	516.4	523.4	422.7
102.5°	65.1	118.9	529.5	647.4	558.5
105°	84.3	131.2	522.2	795.1	748.2
107.5°	104.2	145.7	492.0	871.4	884.5
110°	118.3	156.0	469.5	886.5	942.6



TEST NUMBER: P519105

CATALOG NUMBER: SQ4-WB-050U-075D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.4	166.4	447.0	874.0	958.5
115°	149.9	181.9	418.0	831.6	947.2
117.5°	168.1	198.8	399.5	771.5	901.8
120°	180.3	210.1	391.1	731.2	860.6
122.5°	190.6	220.4	385.5	690.9	815.6
125°	206.1	234.7	378.2	637.2	751.7
127.5°	219.9	248.3	374.2	596.6	694.8
130°	228.3	255.8	372.3	571.1	659.2
132.5°	236.8	264.2	370.5	549.3	627.4
135°	248.2	275.7	367.7	519.0	585.4
137.5°	260.6	285.6	366.3	492.3	548.2
140°	268.1	292.2	365.3	475.4	525.7
142.5°	275.6	297.8	364.4	462.1	504.2
145°	286.9	307.5	363.0	441.0	474.2
147.5°	299.5	317.1	361.8	424.5	450.6
150°	307.9	322.8	361.8	415.0	435.6
152.5°	314.5	327.6	360.9	406.4	423.4
155°	324.3	335.8	360.6	396.0	407.5
157.5°	333.9	342.9	360.6	388.9	397.6
160°	339.6	347.6	360.6	384.2	391.1
162.5°	345.2	351.4	361.6	380.4	385.5
165°	351.3	355.8	361.8	377.1	378.2
167.5°	357.6	359.9	363.0	373.1	374.0
170°	359.5	361.8	363.0	371.2	371.2
172.5°	361.3	362.7	363.0	369.3	369.3
175°	364.1	365.3	363.0	367.6	366.5
177.5°	365.1	365.1	362.3	366.0	364.1
180°	364.1	364.1	364.1	364.1	364.1

(END OF REPORT)