

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: P519000

Luminaire Tested: **SQ4-WB-025U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519000
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-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

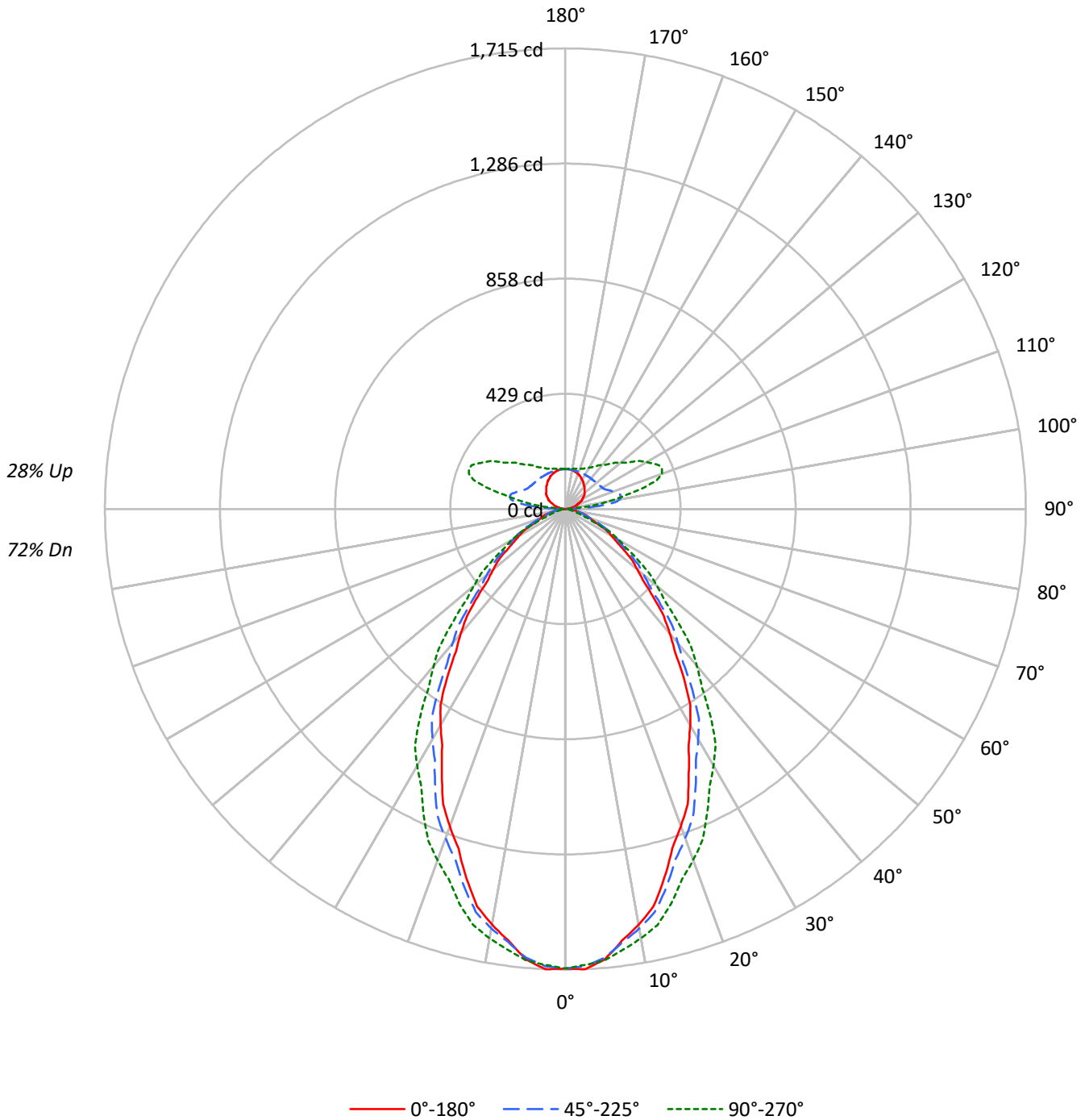
Lumens per Lamp: N/A
Luminaire Lumens: 3460.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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



TEST NUMBER: P519000
CATALOG NUMBER: SQ4-WB-025U-075D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519000

CATALOG NUMBER: SQ4-WB-025U-075D-835-1D-UNV-STD-W-4

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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	76	76	76	72
1	104	101	97	94	99	96	93	90	86	84	82	78	76	75	70	69	68	64
2	96	90	84	80	91	86	81	77	78	74	71	70	68	65	64	62	60	56
3	89	81	74	69	85	77	71	66	70	66	62	64	60	57	58	55	53	50
4	83	73	65	60	78	70	63	58	64	58	54	58	54	51	53	50	47	44
5	77	66	58	53	73	63	56	51	58	52	48	53	49	45	49	45	42	40
6	71	60	52	47	68	58	51	46	53	47	43	49	44	41	45	41	38	36
7	67	55	47	42	63	53	46	41	49	43	39	45	40	37	42	38	35	33
8	62	51	43	38	59	49	42	37	45	40	35	42	37	34	39	35	32	30
9	58	47	40	35	56	45	39	34	42	36	32	39	34	31	36	32	29	27
10	55	43	36	32	52	42	35	31	39	34	30	36	32	28	34	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15534	15625
10°	14729	14863	15208
15°	13598	13913	14537
20°	12348	12812	13660
25°	11075	11680	12726
30°	9902	10550	11758
35°	8659	9285	10613
40°	7289	7867	9187
45°	6015	6534	7671
50°	5022	5474	6390
55°	4263	4699	5278
60°	3644	4072	4211
65°	2901	3425	2720
70°	2573	2673	1662
75°	2381	2167	1016
80°	2194	1992	877
85°	1990	1831	720



TEST NUMBER: P519000

CATALOG NUMBER: SQ4-WB-025U-075D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	4.5
10°-20°	408.2	11.8
20°-30°	528.8	15.3
30°-40°	517.8	15.0
40°-50°	396.3	11.5
50°-60°	264.1	7.6
60°-70°	144.1	4.2
70°-80°	60.0	1.7
80°-90°	17.8	0.5
90°-100°	72.6	2.1
100°-110°	190.9	5.5
110°-120°	198.0	5.7
120°-130°	158.8	4.6
130°-140°	124.6	3.6
140°-150°	95.6	2.8
150°-160°	68.9	2.0
160°-170°	42.1	1.2
170°-180°	14.2	0.4
0°-30°	1094.0	31.6
0°-40°	1611.8	46.6
0°-60°	2272.2	65.7
0°-90°	2494.2	72.1
90°-120°	461.6	13.3
90°-150°	840.6	24.3
90°-180°	966.0	27.9
0°-180°	3460.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1683	1666	1677	1681	1687	157
15°	1424	1418	1457	1496	1522	398
25°	1088	1091	1147	1197	1250	500
35°	769	772	824	880	942	478
45°	461	470	501	539	588	360
55°	265	276	292	303	328	240
65°	133	144	157	137	125	138
75°	67	67	61	42	28	71
85°	19	19	17	11	7	20
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

TEST NUMBER: P519000

CATALOG NUMBER: SQ4-WB-025U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1715.3	1700.0	1703.9	1703.8	1699.1
5°	1683.3	1666.4	1677.3	1681.2	1687.1
7.5°	1620.9	1608.1	1627.9	1642.6	1654.5
10°	1572.2	1561.2	1586.5	1607.9	1623.3
12.5°	1515.8	1506.5	1537.8	1566.5	1586.6
15°	1423.6	1418.4	1456.6	1496.2	1521.9
17.5°	1324.9	1322.4	1366.2	1412.4	1445.3
20°	1257.6	1256.9	1304.9	1353.1	1391.3
22.5°	1189.7	1191.4	1241.9	1291.9	1335.4
25°	1087.9	1090.9	1147.3	1197.3	1250.1
27.5°	993.8	995.1	1053.4	1106.2	1162.6
30°	929.5	933.2	990.3	1045.0	1103.7
32.5°	865.2	869.5	925.5	981.9	1041.8
35°	768.8	772.5	824.4	879.9	942.3
37.5°	669.4	674.4	720.5	772.9	834.3
40°	605.2	612.5	653.2	702.6	762.8
42.5°	543.3	552.4	590.1	637.0	691.4
45°	461.0	469.8	500.8	538.7	587.9
47.5°	390.1	400.3	424.1	456.7	498.7
50°	349.9	359.4	381.4	405.6	445.2
52.5°	314.4	324.0	343.6	362.2	396.0
55°	265.0	276.1	292.1	303.1	328.1
57.5°	224.5	235.1	247.8	252.8	267.9
60°	197.5	209.2	220.7	220.2	228.2
62.5°	172.8	182.8	194.3	186.4	186.8
65°	132.9	143.9	156.9	137.1	124.6
67.5°	107.4	109.7	123.1	95.6	80.8
70°	95.4	95.4	99.1	74.0	61.6
72.5°	83.9	83.9	80.5	60.2	47.2
75°	66.8	66.8	60.8	41.7	28.5
77.5°	51.5	50.9	46.6	31.1	20.7
80°	41.3	41.3	37.5	24.6	16.5
82.5°	32.3	32.3	29.1	19.2	12.3
85°	18.8	18.8	17.3	11.2	6.8
87.5°	6.8	7.2	7.5	4.4	3.8
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

TEST NUMBER: P519000

CATALOG NUMBER: SQ4-WB-025U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)