

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: P519036

Luminaire Tested: **SQ4-WB-025U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519036
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-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

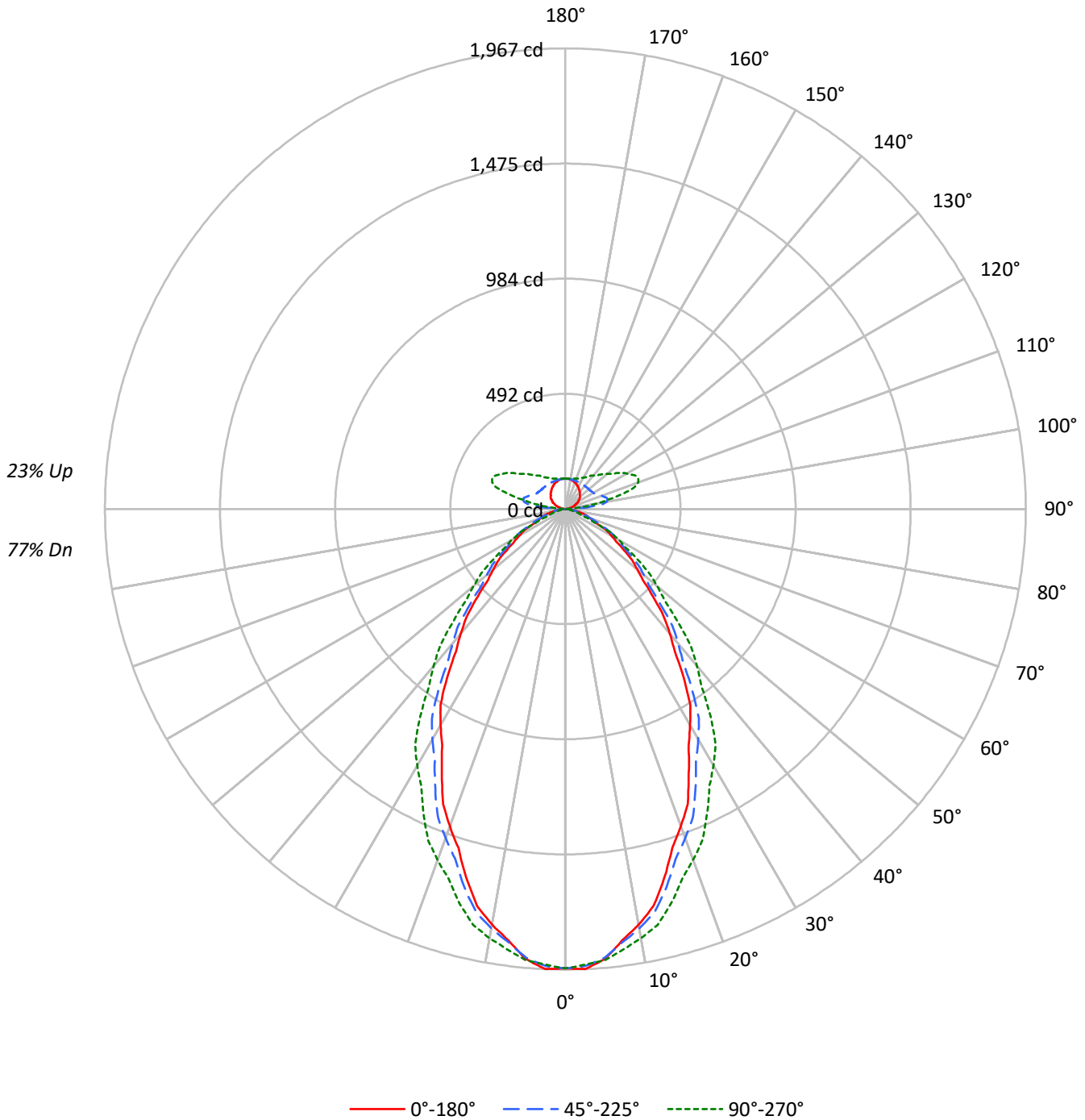
Lumens per Lamp: N/A
Luminaire Lumens: 3698.9 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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					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	50	30	10	0	
RCR																						
0	114	114	114	114	108	108	108	108	99	99	99	89	89	89	81	81	81	77				
1	106	102	98	95	101	97	94	92	89	87	85	82	80	78	75	73	72	69				
2	98	91	86	81	93	87	82	78	80	76	73	74	71	68	68	66	64	60				
3	90	82	75	70	86	79	73	68	73	68	64	67	63	60	62	59	56	53				
4	84	74	67	61	80	71	65	59	66	61	56	61	57	53	57	53	50	48				
5	78	67	60	54	74	65	58	53	60	54	50	56	51	48	52	48	45	43				
6	73	61	54	48	69	59	52	47	55	49	45	51	47	43	48	44	41	39				
7	68	56	49	43	65	54	47	42	51	45	41	48	43	39	45	40	37	35				
8	63	52	44	39	61	50	43	38	47	41	37	44	39	35	41	37	34	32				
9	60	48	41	36	57	46	40	35	44	38	34	41	36	33	39	34	31	29				
10	56	44	37	33	54	43	37	32	41	35	31	38	33	30	36	32	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17813	17916
10°	16889	17042	17438
15°	15591	15953	16669
20°	14158	14691	15663
25°	12700	13392	14592
30°	11355	12097	13482
35°	9930	10647	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3927	3120
70°	2948	3064	1904
75°	2731	2485	1166
80°	2513	2285	1004
85°	2276	2096	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	4.9
10°-20°	468.1	12.7
20°-30°	606.3	16.4
30°-40°	593.7	16.1
40°-50°	454.5	12.3
50°-60°	302.8	8.2
60°-70°	165.2	4.5
70°-80°	68.8	1.9
80°-90°	20.2	0.5
90°-100°	63.1	1.7
100°-110°	165.9	4.5
110°-120°	172.0	4.7
120°-130°	138.0	3.7
130°-140°	108.3	2.9
140°-150°	83.1	2.2
150°-160°	59.9	1.6
160°-170°	36.6	1.0
170°-180°	12.4	0.3
0°-30°	1254.4	33.9
0°-40°	1848.1	50.0
0°-60°	2605.4	70.4
0°-90°	2859.7	77.3
90°-120°	401.1	10.8
90°-150°	730.4	19.7
90°-180°	839.0	22.7
0°-180°	3698.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1930	1911	1923	1928	1934	180
15°	1632	1626	1670	1716	1745	456
25°	1248	1251	1316	1373	1433	574
35°	882	886	945	1009	1080	548
45°	529	539	574	618	674	412
55°	304	316	335	348	376	276
65°	152	165	180	157	143	158
75°	77	77	70	48	33	82
85°	22	22	20	13	8	23
90°	1	2	7	3	3	2
95°	8	33	109	56	38	9
105°	30	45	183	278	260	32
115°	53	64	147	293	334	52
125°	74	83	134	226	266	66
135°	88	97	130	182	207	68
145°	102	109	128	156	168	64
155°	115	119	128	140	144	53
165°	124	126	128	133	134	35
175°	130	130	129	130	130	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1966.8	1949.3	1953.7	1953.6	1948.2
5°	1930.1	1910.8	1923.3	1927.7	1934.5
7.5°	1858.5	1843.9	1866.6	1883.5	1897.1
10°	1802.7	1790.1	1819.1	1843.6	1861.3
12.5°	1738.0	1727.4	1763.3	1796.2	1819.3
15°	1632.3	1626.4	1670.2	1715.6	1745.1
17.5°	1519.2	1516.3	1566.5	1619.5	1657.2
20°	1442.0	1441.2	1496.3	1551.5	1595.3
22.5°	1364.2	1366.0	1423.9	1481.4	1531.2
25°	1247.5	1250.8	1315.5	1372.8	1433.4
27.5°	1139.5	1141.0	1207.8	1268.4	1333.0
30°	1065.8	1070.0	1135.5	1198.2	1265.5
32.5°	992.1	997.0	1061.2	1125.9	1194.6
35°	881.6	885.8	945.3	1008.9	1080.4
37.5°	767.6	773.3	826.1	886.3	956.6
40°	693.9	702.3	749.0	805.7	874.7
42.5°	623.0	633.4	676.7	730.4	792.7
45°	528.6	538.7	574.2	617.7	674.1
47.5°	447.3	458.9	486.2	523.7	571.8
50°	401.2	412.1	437.3	465.1	510.5
52.5°	360.5	371.5	394.0	415.3	454.0
55°	303.9	316.5	334.9	347.6	376.2
57.5°	257.4	269.5	284.1	289.8	307.2
60°	226.4	239.9	253.1	252.5	261.7
62.5°	198.2	209.6	222.8	213.7	214.2
65°	152.4	165.0	179.9	157.2	142.9
67.5°	123.1	125.8	141.2	109.6	92.6
70°	109.3	109.3	113.6	84.9	70.6
72.5°	96.2	96.2	92.3	69.0	54.1
75°	76.6	76.6	69.7	47.9	32.7
77.5°	59.1	58.4	53.4	35.7	23.8
80°	47.3	47.3	43.0	28.2	18.9
82.5°	37.0	37.0	33.4	22.0	14.1
85°	21.5	21.5	19.8	12.8	7.7
87.5°	7.7	8.1	8.2	4.8	4.1
90°	0.8	2.5	6.6	3.3	3.3
92.5°	3.5	16.8	37.2	16.5	10.6
95°	8.3	32.6	108.7	56.0	38.2
97.5°	14.4	35.9	162.7	129.4	95.3
100°	19.1	38.6	179.3	181.7	141.1
102.5°	23.1	41.3	183.9	226.3	191.6
105°	29.9	45.3	183.4	278.5	259.8
107.5°	36.9	51.1	173.0	305.6	310.1
110°	41.5	54.5	164.3	312.5	332.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.2	58.5	156.4	308.1	338.0
115°	53.1	64.5	146.9	293.1	334.5
117.5°	59.9	70.3	140.4	272.3	318.2
120°	63.9	73.7	137.8	258.3	303.0
122.5°	67.9	77.6	135.8	244.4	288.4
125°	73.9	82.8	133.6	225.9	266.4
127.5°	78.7	87.8	131.8	210.9	245.2
130°	81.3	91.1	131.1	201.6	233.2
132.5°	84.0	93.7	130.5	193.5	222.0
135°	88.0	96.9	129.5	182.3	206.7
137.5°	92.1	100.9	129.3	173.9	193.9
140°	95.5	103.6	128.7	167.3	185.9
142.5°	98.1	105.6	128.7	162.6	178.6
145°	102.1	108.6	127.8	155.5	167.7
147.5°	106.1	112.4	127.8	149.6	159.7
150°	108.7	114.4	127.8	146.3	154.4
152.5°	111.4	115.8	127.8	143.6	149.7
155°	115.4	118.6	127.8	140.4	144.4
157.5°	118.4	121.4	127.8	137.5	140.4
160°	120.4	122.8	127.8	136.2	137.8
162.5°	122.3	124.1	127.8	134.8	136.5
165°	124.5	126.1	127.8	132.8	134.5
167.5°	126.5	127.3	128.7	132.0	132.6
170°	127.8	128.6	128.7	132.0	132.0
172.5°	128.5	128.7	128.7	131.3	130.6
175°	129.5	129.5	128.7	130.3	130.3
177.5°	129.5	129.5	128.8	130.1	129.5
180°	129.5	129.5	129.5	129.5	129.5

(END OF REPORT)