

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: P519028

Luminaire Tested: **SQ4-WB-025U-100D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519028
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

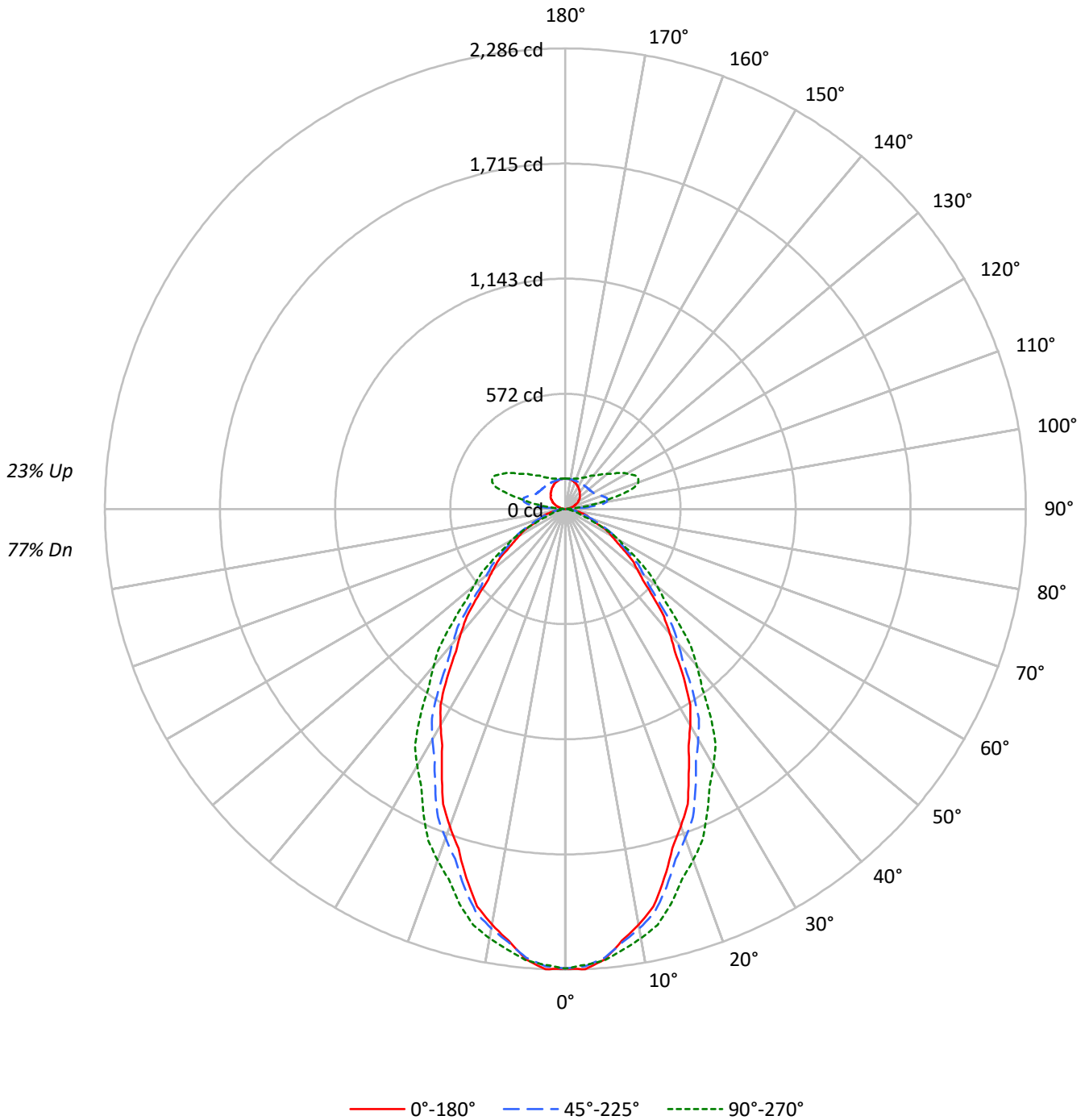
Lumens per Lamp: N/A
Luminaire Lumens: 4300.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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



TEST NUMBER: P519028
CATALOG NUMBER: SQ4-WB-025U-100D-840-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519028

CATALOG NUMBER: SQ4-WB-025U-100D-840-1D-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	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°	21043	21043	21043
5°	20780	20706	20826
10°	19633	19811	20271
15°	18124	18545	19377
20°	16458	17078	18207
25°	14762	15567	16963
30°	13200	14063	15672
35°	11542	12377	14146
40°	9715	10487	12246
45°	8018	8709	10224
50°	6694	7297	8519
55°	5683	6262	7034
60°	4857	5429	5613
65°	3866	4567	3626
70°	3429	3563	2215
75°	3176	2891	1355
80°	2922	2657	1169
85°	2646	2435	953



TEST NUMBER: P519028

CATALOG NUMBER: SQ4-WB-025U-100D-840-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	4.9
10°-20°	544.1	12.7
20°-30°	704.8	16.4
30°-40°	690.2	16.1
40°-50°	528.3	12.3
50°-60°	352.0	8.2
60°-70°	192.1	4.5
70°-80°	80.0	1.9
80°-90°	23.5	0.5
90°-100°	73.4	1.7
100°-110°	192.9	4.5
110°-120°	200.0	4.7
120°-130°	160.4	3.7
130°-140°	125.9	2.9
140°-150°	96.6	2.2
150°-160°	69.6	1.6
160°-170°	42.6	1.0
170°-180°	14.4	0.3
0°-30°	1458.2	33.9
0°-40°	2148.4	50.0
0°-60°	3028.7	70.4
0°-90°	3324.3	77.3
90°-120°	466.2	10.8
90°-150°	849.1	19.7
90°-180°	976.0	22.7
0°-180°	4300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2281	2281	2281	2281	2281	
5°	2244	2221	2236	2241	2249	209
15°	1898	1891	1942	1994	2029	530
25°	1450	1454	1529	1596	1666	667
35°	1025	1030	1099	1173	1256	637
45°	614	626	668	718	784	479
55°	353	368	389	404	437	320
65°	177	192	209	183	166	184
75°	89	89	81	56	38	95
85°	25	25	23	15	9	27
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	



TEST NUMBER: P519028

CATALOG NUMBER: SQ4-WB-025U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280.8	2280.8	2280.8	2280.8	2280.8
2.5°	2286.4	2266.0	2271.2	2271.0	2264.8
5°	2243.7	2221.2	2235.7	2240.9	2248.7
7.5°	2160.5	2143.5	2169.9	2189.5	2205.3
10°	2095.6	2080.9	2114.6	2143.1	2163.7
12.5°	2020.4	2008.0	2049.8	2088.0	2114.8
15°	1897.5	1890.6	1941.5	1994.3	2028.6
17.5°	1766.0	1762.6	1821.0	1882.7	1926.5
20°	1676.3	1675.3	1739.4	1803.6	1854.4
22.5°	1585.8	1588.0	1655.3	1722.1	1780.0
25°	1450.1	1454.0	1529.2	1595.8	1666.3
27.5°	1324.6	1326.4	1404.1	1474.5	1549.6
30°	1239.0	1243.9	1320.0	1392.9	1471.1
32.5°	1153.3	1159.0	1233.6	1308.8	1388.7
35°	1024.8	1029.7	1098.9	1172.8	1256.0
37.5°	892.3	898.9	960.3	1030.3	1112.1
40°	806.6	816.4	870.7	936.5	1016.8
42.5°	724.2	736.3	786.6	849.1	921.5
45°	614.5	626.2	667.5	718.0	783.6
47.5°	520.0	533.5	565.2	608.7	664.7
50°	466.4	479.1	508.4	540.6	593.5
52.5°	419.1	431.8	458.0	482.8	527.8
55°	353.3	368.0	389.3	404.1	437.3
57.5°	299.2	313.3	330.3	336.9	357.1
60°	263.2	278.9	294.2	293.5	304.2
62.5°	230.4	243.7	259.0	248.4	249.0
65°	177.1	191.8	209.2	182.8	166.1
67.5°	143.1	146.2	164.1	127.5	107.7
70°	127.1	127.1	132.1	98.7	82.1
72.5°	111.9	111.9	107.3	80.3	62.8
75°	89.1	89.1	81.1	55.6	38.0
77.5°	68.7	67.9	62.0	41.5	27.6
80°	55.0	55.0	50.0	32.8	22.0
82.5°	43.0	43.0	38.8	25.6	16.4
85°	25.0	25.0	23.0	14.9	9.0
87.5°	9.0	9.4	9.6	5.6	4.8
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

TEST NUMBER: P519028

CATALOG NUMBER: SQ4-WB-025U-100D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)