

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: P519020

Luminaire Tested: **SQ4-WB-025U-100D-830-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519020
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-830-1D-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: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

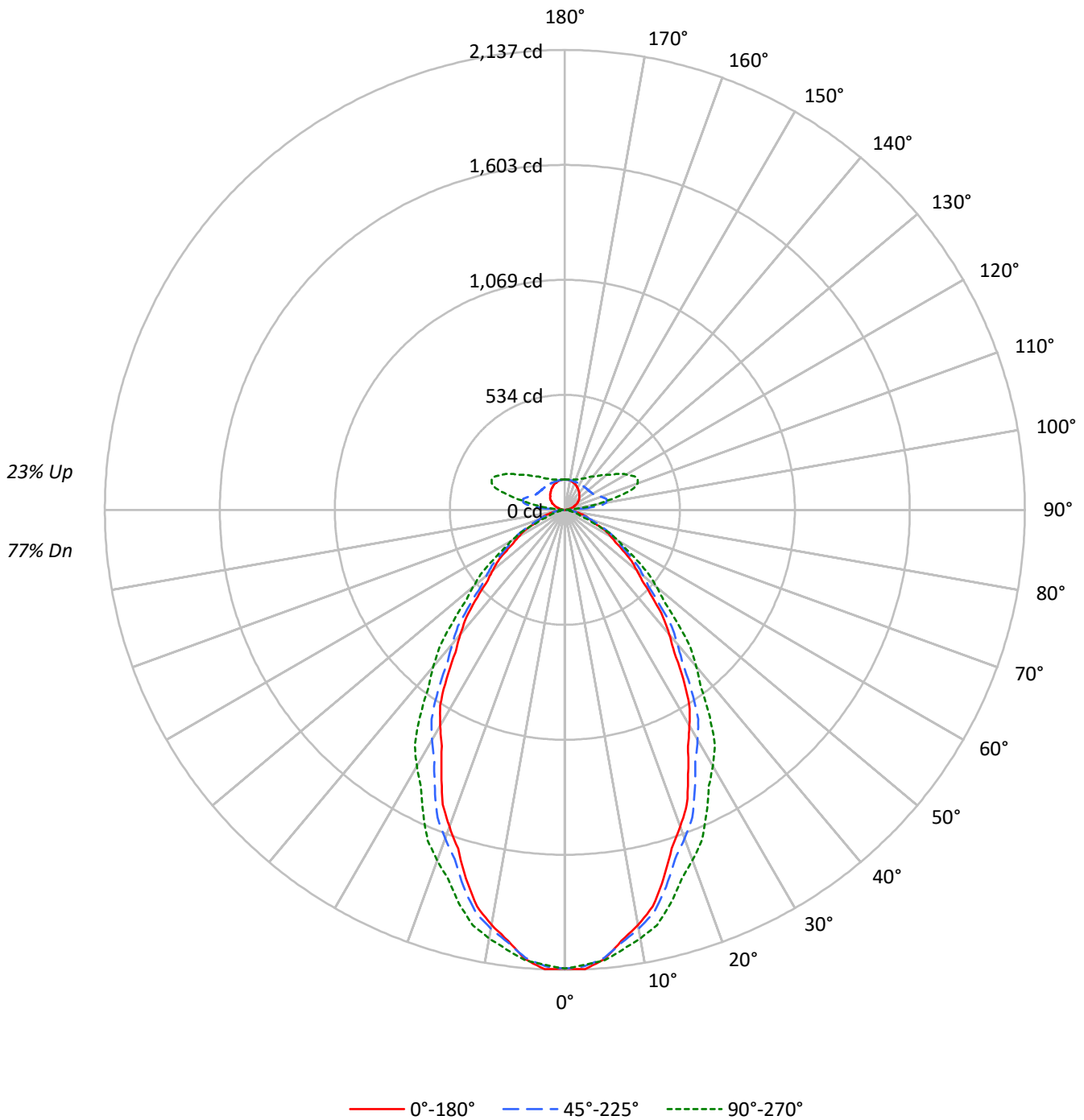
Lumens per Lamp: N/A
Luminaire Lumens: 4018.3 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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: P519020
CATALOG NUMBER: SQ4-WB-025U-100D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P519020

CATALOG NUMBER: SQ4-WB-025U-100D-830-1D-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	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°	19665	19665	19665
5°	19419	19350	19462
10°	18346	18513	18942
15°	16937	17330	18107
20°	15380	15959	17015
25°	13795	14547	15851
30°	12335	13141	14646
35°	10787	11566	13220
40°	9079	9799	11444
45°	7492	8139	9555
50°	6255	6819	7960
55°	5310	5852	6574
60°	4539	5074	5246
65°	3613	4268	3388
70°	3205	3329	2069
75°	2966	2702	1265
80°	2731	2487	1095
85°	2477	2276	889



TEST NUMBER: P519020

CATALOG NUMBER: SQ4-WB-025U-100D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.5	4.9
10°-20°	508.5	12.7
20°-30°	658.6	16.4
30°-40°	645.0	16.1
40°-50°	493.7	12.3
50°-60°	329.0	8.2
60°-70°	179.5	4.5
70°-80°	74.8	1.9
80°-90°	21.9	0.5
90°-100°	68.6	1.7
100°-110°	180.2	4.5
110°-120°	186.9	4.7
120°-130°	149.9	3.7
130°-140°	117.6	2.9
140°-150°	90.3	2.2
150°-160°	65.0	1.6
160°-170°	39.8	1.0
170°-180°	13.4	0.3
0°-30°	1362.6	33.9
0°-40°	2007.6	50.0
0°-60°	2830.3	70.4
0°-90°	3106.5	77.3
90°-120°	435.7	10.8
90°-150°	793.5	19.7
90°-180°	912.0	22.7
0°-180°	4018.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2097	2076	2089	2094	2101	195
15°	1773	1767	1814	1864	1896	495
25°	1355	1359	1429	1491	1557	623
35°	958	962	1027	1096	1174	595
45°	574	585	624	671	732	448
55°	330	344	364	378	409	299
65°	166	179	196	171	155	172
75°	83	83	76	52	36	89
85°	23	23	22	14	8	25
90°	1	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	



TEST NUMBER: P519020

CATALOG NUMBER: SQ4-WB-025U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2131.4	2131.4	2131.4	2131.4	2131.4
2.5°	2136.6	2117.6	2122.4	2122.2	2116.4
5°	2096.8	2075.7	2089.3	2094.1	2101.4
7.5°	2018.9	2003.0	2027.7	2046.0	2060.8
10°	1958.3	1944.6	1976.1	2002.7	2021.9
12.5°	1888.0	1876.5	1915.5	1951.2	1976.3
15°	1773.2	1766.8	1814.3	1863.7	1895.7
17.5°	1650.3	1647.2	1701.7	1759.3	1800.3
20°	1566.5	1565.6	1625.4	1685.4	1733.0
22.5°	1481.9	1484.0	1546.8	1609.2	1663.4
25°	1355.1	1358.8	1429.0	1491.3	1557.1
27.5°	1237.9	1239.5	1312.1	1377.9	1448.1
30°	1157.8	1162.4	1233.5	1301.6	1374.8
32.5°	1077.7	1083.0	1152.7	1223.1	1297.7
35°	957.7	962.2	1026.9	1096.0	1173.7
37.5°	833.8	840.1	897.4	962.8	1039.2
40°	753.8	762.9	813.6	875.2	950.2
42.5°	676.7	688.1	735.1	793.5	861.1
45°	574.2	585.2	623.8	671.0	732.3
47.5°	485.9	498.6	528.2	568.9	621.2
50°	435.8	447.7	475.1	505.2	554.6
52.5°	391.7	403.6	428.0	451.2	493.2
55°	330.1	343.8	363.8	377.6	408.7
57.5°	279.6	292.8	308.6	314.8	333.7
60°	246.0	260.6	275.0	274.2	284.3
62.5°	215.3	227.7	242.0	232.1	232.7
65°	165.5	179.2	195.5	170.8	155.2
67.5°	133.7	136.7	153.4	119.1	100.6
70°	118.8	118.8	123.4	92.2	76.7
72.5°	104.6	104.6	100.3	75.0	58.7
75°	83.2	83.2	75.8	52.0	35.5
77.5°	64.2	63.4	58.0	38.8	25.8
80°	51.4	51.4	46.8	30.6	20.6
82.5°	40.2	40.2	36.3	23.9	15.3
85°	23.4	23.4	21.5	13.9	8.4
87.5°	8.4	8.8	8.9	5.2	4.5
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7

TEST NUMBER: P519020

CATALOG NUMBER: SQ4-WB-025U-100D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)