

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845319

Luminaire Tested: **SQ4P-WB-025U-100D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845319
REPORT IS A COMBINATION OF REPORTS P700185 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-025U-100D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

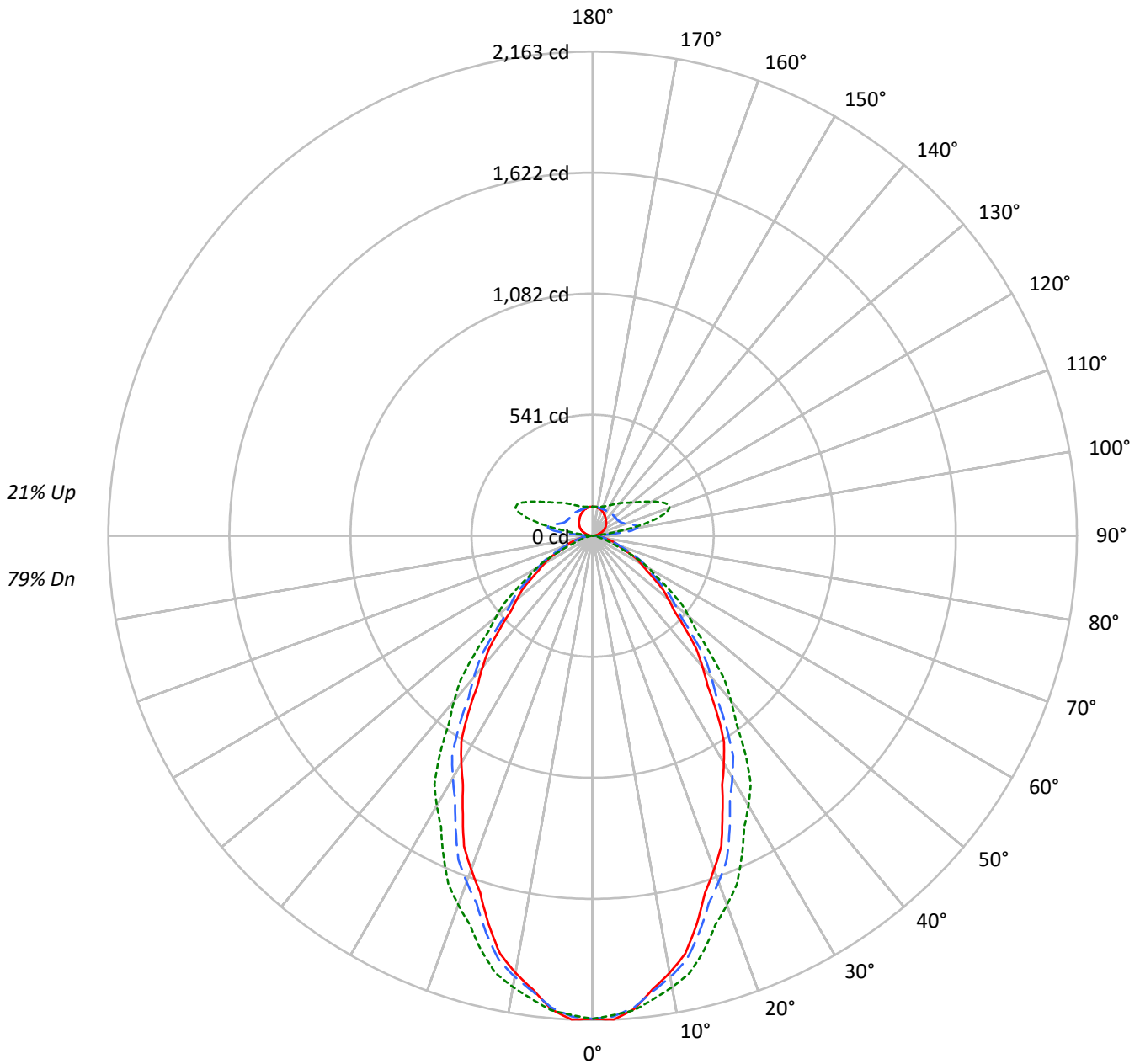
Lumens per Lamp: N/A
Luminaire Lumens: 3987.6 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.9
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 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	109	109	109	109	99	99	99	91	91	91	83	83	83	79	79	79	79
1	106	102	99	96	101	98	95	92	90	88	86	83	81	79	76	75	73	70	70	70	70
2	98	91	86	81	94	88	83	79	81	77	74	75	72	69	69	67	65	62	62	62	62
3	91	82	76	70	87	79	73	68	73	69	65	68	64	61	63	60	57	55	55	55	55
4	84	74	67	61	81	72	65	60	67	61	57	62	58	54	58	54	51	49	49	49	49
5	78	67	60	54	75	65	58	53	61	55	51	57	52	48	53	49	46	44	44	44	44
6	73	62	54	48	70	60	53	47	56	50	45	52	47	44	49	45	42	39	39	39	39
7	68	56	49	44	65	55	48	43	51	45	41	48	43	39	45	41	38	36	36	36	36
8	64	52	45	40	61	50	44	39	48	42	37	45	40	36	42	38	35	33	33	33	33
9	60	48	41	36	58	47	40	36	44	38	34	42	37	33	39	35	32	30	30	30	30
10	56	45	38	33	54	44	37	33	41	35	32	39	34	30	37	33	29	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19910	19910	19910
5°	19662	19592	19707
10°	18576	18745	19178
15°	17148	17547	18333
20°	15573	16158	17227
25°	13968	14729	16051
30°	12490	13304	14829
35°	10920	11709	13386
40°	9191	9922	11587
45°	7585	8240	9674
50°	6331	6904	8058
55°	5376	5923	6655
60°	4595	5137	5312
65°	3659	4320	3430
70°	3245	3372	2093
75°	3002	2734	1283
80°	2768	2518	1105
85°	2488	2318	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	5.0
10°-20°	514.9	12.9
20°-30°	666.9	16.7
30°-40°	653.0	16.4
40°-50°	499.8	12.5
50°-60°	333.1	8.4
60°-70°	181.8	4.6
70°-80°	75.8	1.9
80°-90°	21.7	0.5
90°-100°	51.7	1.3
100°-110°	179.8	4.5
110°-120°	174.2	4.4
120°-130°	136.6	3.4
130°-140°	108.2	2.7
140°-150°	83.5	2.1
150°-160°	59.8	1.5
160°-170°	36.6	0.9
170°-180°	12.4	0.3
0°-30°	1379.7	34.6
0°-40°	2032.7	51.0
0°-60°	2865.6	71.9
0°-90°	3144.9	78.9
90°-120°	405.7	10.2
90°-150°	734.0	18.4
90°-180°	843.0	21.1
0°-180°	3987.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2123	2102	2115	2120	2128	197
15°	1795	1789	1837	1887	1919	501
25°	1372	1376	1447	1510	1577	631
35°	970	974	1040	1110	1188	603
45°	581	592	632	679	741	453
55°	334	348	368	382	414	303
65°	168	182	198	173	157	174
75°	84	84	77	53	36	90
85°	24	24	22	14	8	26
90°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



TEST NUMBER: P845319

CATALOG NUMBER: SQ4P-WB-025U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.0	2158.0	2158.0	2158.0	2158.0
2.5°	2163.3	2144.1	2149.0	2148.8	2142.8
5°	2123.0	2101.6	2115.4	2120.2	2127.8
7.5°	2044.1	2028.1	2053.2	2071.6	2086.6
10°	1982.8	1968.9	2000.8	2027.9	2047.1
12.5°	1911.7	1899.8	1939.6	1975.5	2001.1
15°	1795.3	1788.9	1837.1	1887.1	1919.4
17.5°	1671.0	1667.8	1723.0	1781.3	1822.7
20°	1586.1	1585.2	1645.7	1706.5	1754.6
22.5°	1500.5	1502.4	1566.1	1629.4	1684.2
25°	1372.1	1375.8	1446.9	1510.0	1576.7
27.5°	1253.4	1255.1	1328.4	1395.1	1466.2
30°	1172.4	1176.8	1248.8	1317.9	1391.9
32.5°	1091.4	1096.7	1167.2	1238.4	1313.9
35°	969.5	974.3	1039.6	1109.8	1188.5
37.5°	844.2	850.5	908.7	974.7	1052.3
40°	763.1	772.5	823.8	886.2	962.1
42.5°	685.1	696.7	744.2	803.5	871.8
45°	581.3	592.5	631.5	679.3	741.4
47.5°	492.0	504.8	534.8	576.0	628.9
50°	441.1	453.3	481.0	511.5	561.4
52.5°	396.5	408.6	433.3	456.8	499.5
55°	334.2	348.1	368.2	382.4	413.7
57.5°	283.2	296.4	312.5	318.7	337.8
60°	249.0	263.9	278.4	277.6	287.9
62.5°	218.0	230.6	245.0	234.9	235.6
65°	167.6	181.6	197.9	173.0	157.1
67.5°	135.5	138.3	155.2	120.6	101.8
70°	120.3	120.3	125.0	93.4	77.6
72.5°	105.9	105.9	101.7	75.9	59.4
75°	84.2	84.2	76.7	52.7	36.0
77.5°	64.9	64.3	58.7	39.2	26.2
80°	52.1	52.1	47.4	31.1	20.8
82.5°	40.7	40.7	36.6	24.2	15.4
85°	23.5	23.5	21.9	14.1	8.5
87.5°	8.3	8.3	7.5	4.5	3.9
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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CATALOG NUMBER: SQ4P-WB-025U-100D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)