

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: P845318

Luminaire Tested: **SQ4P-WB-025U-100D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845318
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

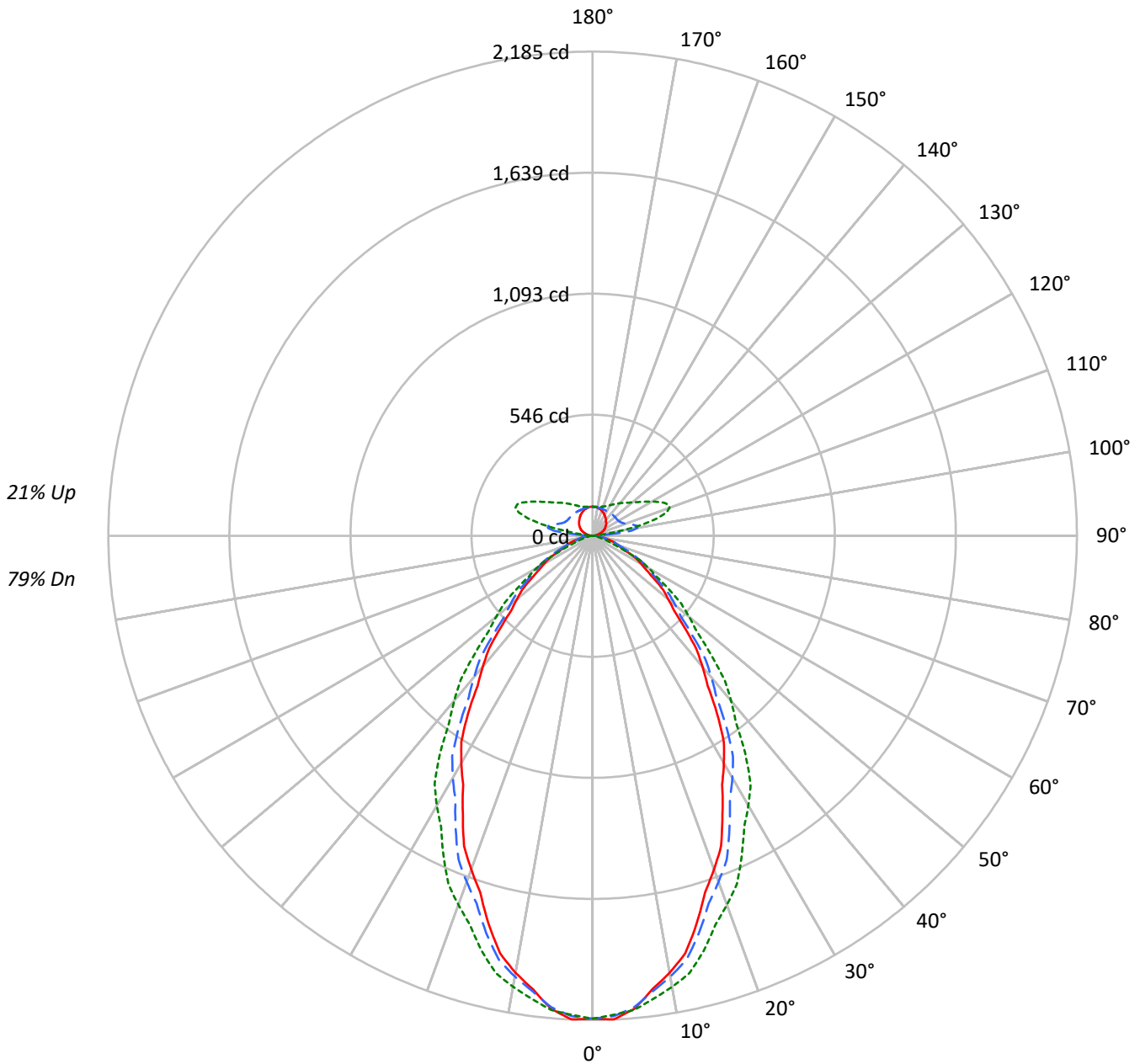
Lumens per Lamp: N/A
Luminaire Lumens: 4026.8 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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									
RC	80									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															
1	106	102	99	96	101	98	95	92	90	88	86	83	81	79	76	75	73	70				70															
2	98	91	86	81	94	88	83	79	81	77	74	75	72	69	69	67	65	62				62															
3	91	82	76	70	87	79	73	68	73	69	65	68	64	61	63	60	57	55				55															
4	84	74	67	61	81	72	65	60	67	61	57	62	58	54	58	54	51	49				49															
5	78	67	60	54	75	65	58	53	61	55	51	57	52	48	53	49	46	44				44															
6	73	62	54	48	70	60	53	47	56	50	45	52	47	44	49	45	42	39				39															
7	68	56	49	44	65	55	48	43	51	45	41	48	43	39	45	41	38	36				36															
8	64	52	45	40	61	50	44	39	48	42	37	45	40	36	42	38	35	33				33															
9	60	48	41	36	58	47	40	36	44	38	34	42	37	33	39	35	32	30				30															
10	56	45	38	33	54	44	37	33	41	35	32	39	34	30	37	33	29	28				28															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20106	20106	20106
5°	19855	19783	19899
10°	18758	18928	19367
15°	17316	17719	18513
20°	15725	16316	17396
25°	14105	14874	16208
30°	12613	13435	14973
35°	11028	11824	13517
40°	9281	10019	11701
45°	7659	8321	9769
50°	6393	6973	8137
55°	5429	5982	6719
60°	4641	5187	5364
65°	3696	4362	3462
70°	3275	3404	2115
75°	3030	2763	1298
80°	2795	2545	1116
85°	2519	2339	910



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	5.0
10°-20°	519.9	12.9
20°-30°	673.4	16.7
30°-40°	659.4	16.4
40°-50°	504.8	12.5
50°-60°	336.3	8.4
60°-70°	183.5	4.6
70°-80°	76.5	1.9
80°-90°	22.0	0.5
90°-100°	52.2	1.3
100°-110°	181.6	4.5
110°-120°	175.9	4.4
120°-130°	138.0	3.4
130°-140°	109.2	2.7
140°-150°	84.3	2.1
150°-160°	60.4	1.5
160°-170°	37.0	0.9
170°-180°	12.5	0.3
0°-30°	1393.2	34.6
0°-40°	2052.6	51.0
0°-60°	2893.7	71.9
0°-90°	3175.7	78.9
90°-120°	409.7	10.2
90°-150°	741.2	18.4
90°-180°	851.0	21.1
0°-180°	4026.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2144	2122	2136	2141	2149	199
15°	1813	1806	1855	1906	1938	506
25°	1386	1389	1461	1525	1592	637
35°	979	984	1050	1121	1200	609
45°	587	598	638	686	749	458
55°	338	352	372	386	418	306
65°	169	183	200	175	159	176
75°	85	85	78	53	36	91
85°	24	24	22	14	9	26
90°	2	3	3	2	1	2
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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CATALOG NUMBER: SQ4P-WB-025U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2179.2	2179.2	2179.2	2179.2	2179.2
2.5°	2184.6	2165.1	2170.1	2169.9	2163.8
5°	2143.8	2122.2	2136.1	2141.0	2148.6
7.5°	2064.2	2047.9	2073.3	2091.9	2107.0
10°	2002.2	1988.3	2020.4	2047.7	2067.2
12.5°	1930.4	1918.5	1958.6	1994.9	2020.7
15°	1812.9	1806.4	1855.1	1905.6	1938.2
17.5°	1687.3	1684.1	1739.9	1798.8	1840.6
20°	1601.6	1600.7	1661.8	1723.3	1771.8
22.5°	1515.2	1517.2	1581.5	1645.4	1700.7
25°	1385.6	1389.3	1461.1	1524.8	1592.1
27.5°	1265.7	1267.4	1341.4	1408.7	1480.6
30°	1183.9	1188.4	1261.1	1330.8	1405.5
32.5°	1102.1	1107.4	1178.7	1250.5	1326.7
35°	979.1	983.9	1049.8	1120.7	1200.1
37.5°	852.4	858.9	917.6	984.2	1062.6
40°	770.6	780.1	831.9	894.9	971.5
42.5°	691.8	703.5	751.5	811.3	880.3
45°	587.0	598.3	637.7	686.0	748.7
47.5°	496.8	509.7	540.1	581.7	635.1
50°	445.4	457.8	485.8	516.5	566.9
52.5°	400.4	412.6	437.5	461.3	504.4
55°	337.5	351.5	371.9	386.1	417.7
57.5°	285.9	299.3	315.6	321.9	341.1
60°	251.5	266.5	281.1	280.4	290.7
62.5°	220.2	232.9	247.4	237.2	237.9
65°	169.3	183.4	199.8	174.7	158.6
67.5°	136.8	139.6	156.8	121.8	102.8
70°	121.4	121.4	126.2	94.3	78.4
72.5°	107.0	107.0	102.7	76.6	60.0
75°	85.0	85.0	77.5	53.2	36.4
77.5°	65.6	65.0	59.3	39.6	26.4
80°	52.6	52.6	47.9	31.4	21.0
82.5°	41.1	41.1	37.0	24.5	15.6
85°	23.8	23.8	22.1	14.3	8.6
87.5°	8.4	8.4	7.5	4.5	3.9
90°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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CATALOG NUMBER: SQ4P-WB-025U-100D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)