

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: P844817

Luminaire Tested: **SQ4P-BB-025U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844817
REPORT IS A COMBINATION OF REPORTS P700162 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-025U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

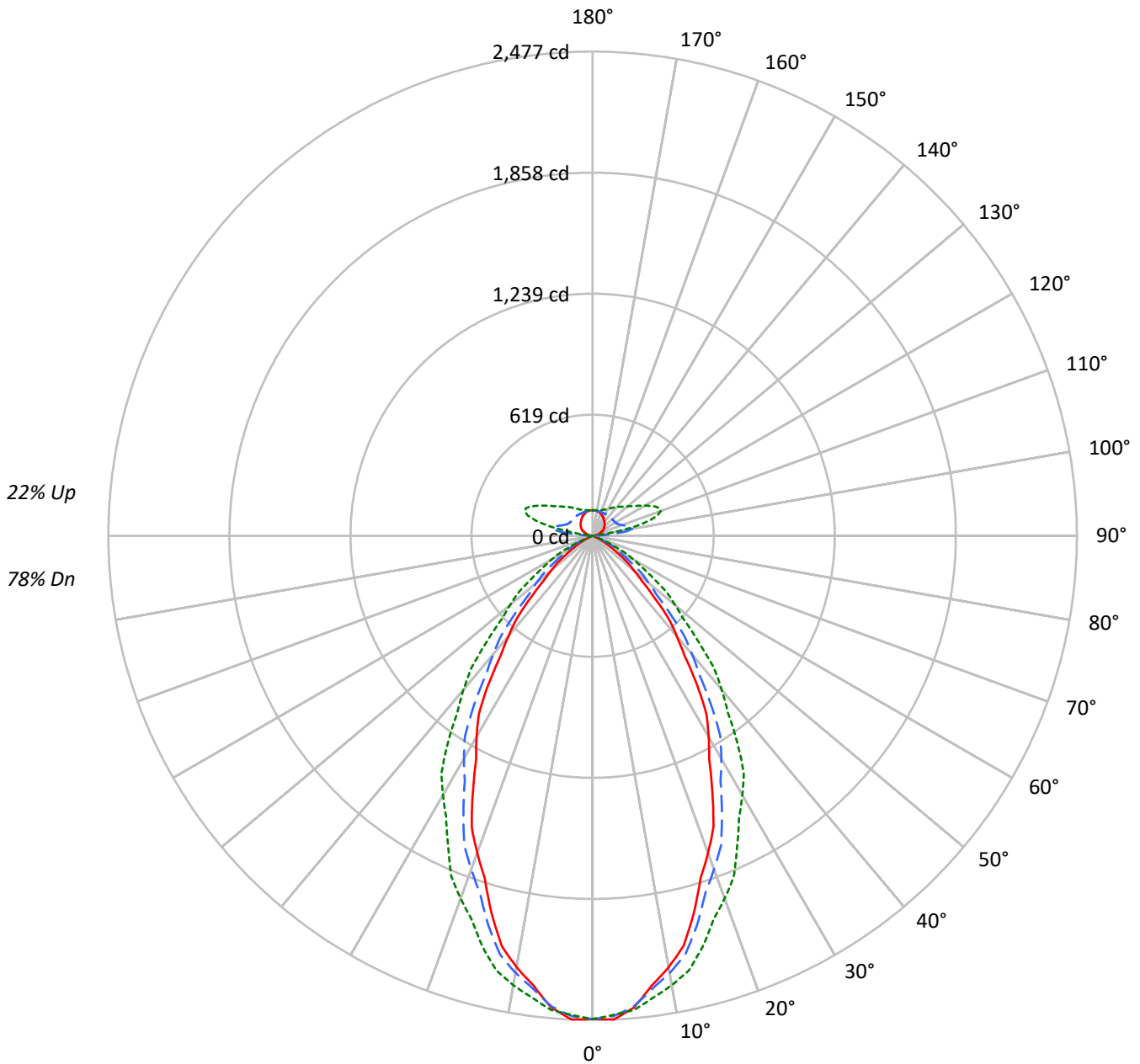
Lumens per Lamp: N/A
Luminaire Lumens: 3799.8 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 52.8
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	108	108	108	108	99	99	99	90	90	90	81	81	81	78				
1	107	103	100	98	102	99	96	94	91	89	87	83	82	80	76	75	74	71				
2	100	94	89	84	95	90	86	82	83	80	77	77	74	72	71	69	67	64				
3	93	85	79	74	89	82	76	72	76	72	68	70	67	64	65	63	60	58				
4	87	77	71	66	83	75	69	64	70	65	61	65	61	58	60	57	55	52				
5	81	71	64	59	77	68	62	57	64	59	55	60	56	52	56	53	50	48				
6	76	65	58	53	72	63	56	52	59	54	50	55	51	48	52	48	45	43				
7	71	60	53	48	68	58	52	47	55	49	45	52	47	43	49	45	42	40				
8	67	55	48	44	64	54	47	43	51	45	41	48	43	40	45	41	38	37				
9	63	51	45	40	60	50	44	39	47	42	38	45	40	37	42	39	36	34				
10	59	48	41	37	57	47	41	36	44	39	35	42	37	34	40	36	33	31				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22804	22804	22804
5°	22437	22382	22548
10°	20992	21274	21868
15°	19085	19691	20787
20°	16942	17821	19382
25°	14753	15920	17809
30°	12638	14025	16318
35°	10477	11906	14517
40°	8050	9521	12370
45°	5821	7209	9954
50°	3964	5370	7896
55°	2578	3885	6135
60°	1478	2738	4436
65°	391	1672	2244
70°	197	518	642
75°	86	39	0
80°	58	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	5.9
10°-20°	576.8	15.2
20°-30°	722.1	19.0
30°-40°	667.0	17.6
40°-50°	448.2	11.8
50°-60°	231.5	6.1
60°-70°	72.5	1.9
70°-80°	4.6	0.1
80°-90°	0.4	0.0
90°-100°	52.2	1.4
100°-110°	181.6	4.8
110°-120°	175.9	4.6
120°-130°	138.0	3.6
130°-140°	109.2	2.9
140°-150°	84.3	2.2
150°-160°	60.4	1.6
160°-170°	37.0	1.0
170°-180°	12.5	0.3
0°-30°	1524.5	40.1
0°-40°	2191.6	57.7
0°-60°	2871.3	75.6
0°-90°	2948.7	77.6
90°-120°	409.7	10.8
90°-150°	741.2	19.5
90°-180°	851.0	22.4
0°-180°	3799.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2423	2398	2417	2425	2435	225
15°	1998	1991	2062	2130	2176	557
25°	1449	1461	1564	1671	1749	664
35°	930	954	1057	1181	1289	576
45°	446	473	552	660	763	350
55°	160	187	242	310	381	150
65°	18	34	77	92	103	30
75°	2	2	1	0	0	3
85°	0	0	0	0	0	0
90°	2	3	3	2	1	1
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2471.7	2471.7	2471.7	2471.7	2471.7
2.5°	2477.3	2454.0	2460.0	2460.0	2453.6
5°	2422.6	2398.1	2416.7	2425.1	2434.6
7.5°	2320.4	2301.1	2336.8	2363.3	2382.9
10°	2240.7	2224.5	2270.8	2307.1	2334.2
12.5°	2148.9	2136.2	2192.3	2242.4	2276.7
15°	1998.1	1991.2	2061.5	2130.5	2176.3
17.5°	1836.6	1836.3	1916.4	2002.5	2057.4
20°	1725.6	1729.1	1815.1	1910.0	1974.1
22.5°	1614.5	1622.7	1714.7	1813.6	1887.2
25°	1449.2	1460.8	1563.9	1671.2	1749.4
27.5°	1290.5	1307.6	1416.2	1527.2	1622.7
30°	1186.3	1206.1	1316.5	1433.5	1531.7
32.5°	1083.7	1107.5	1215.0	1339.0	1438.9
35°	930.2	953.7	1057.1	1181.4	1288.9
37.5°	771.8	794.6	895.6	1018.2	1134.4
40°	668.4	694.1	790.5	909.1	1027.1
42.5°	574.7	600.4	690.9	807.5	919.1
45°	446.1	472.9	552.5	660.0	762.9
47.5°	339.5	368.4	438.3	535.8	629.4
50°	276.2	305.4	374.1	459.9	550.1
52.5°	225.5	253.9	315.9	396.6	479.2
55°	160.3	187.1	241.5	310.2	381.4
57.5°	110.7	134.0	182.7	239.8	295.9
60°	80.1	102.4	148.4	194.6	240.4
62.5°	53.3	73.6	118.6	154.3	184.9
65°	17.9	34.3	76.6	92.3	102.8
67.5°	9.2	10.9	40.0	42.5	46.0
70°	7.3	7.3	19.2	20.3	23.8
72.5°	5.2	5.2	7.5	9.8	10.6
75°	2.4	2.4	1.1	0.0	0.0
77.5°	1.1	1.1	1.1	0.0	0.0
80°	1.1	1.1	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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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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)