

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: P845370

Luminaire Tested: **SQ4P-WB-100U-125D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845370
REPORT IS A COMBINATION OF REPORTS P700102 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-100U-125D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

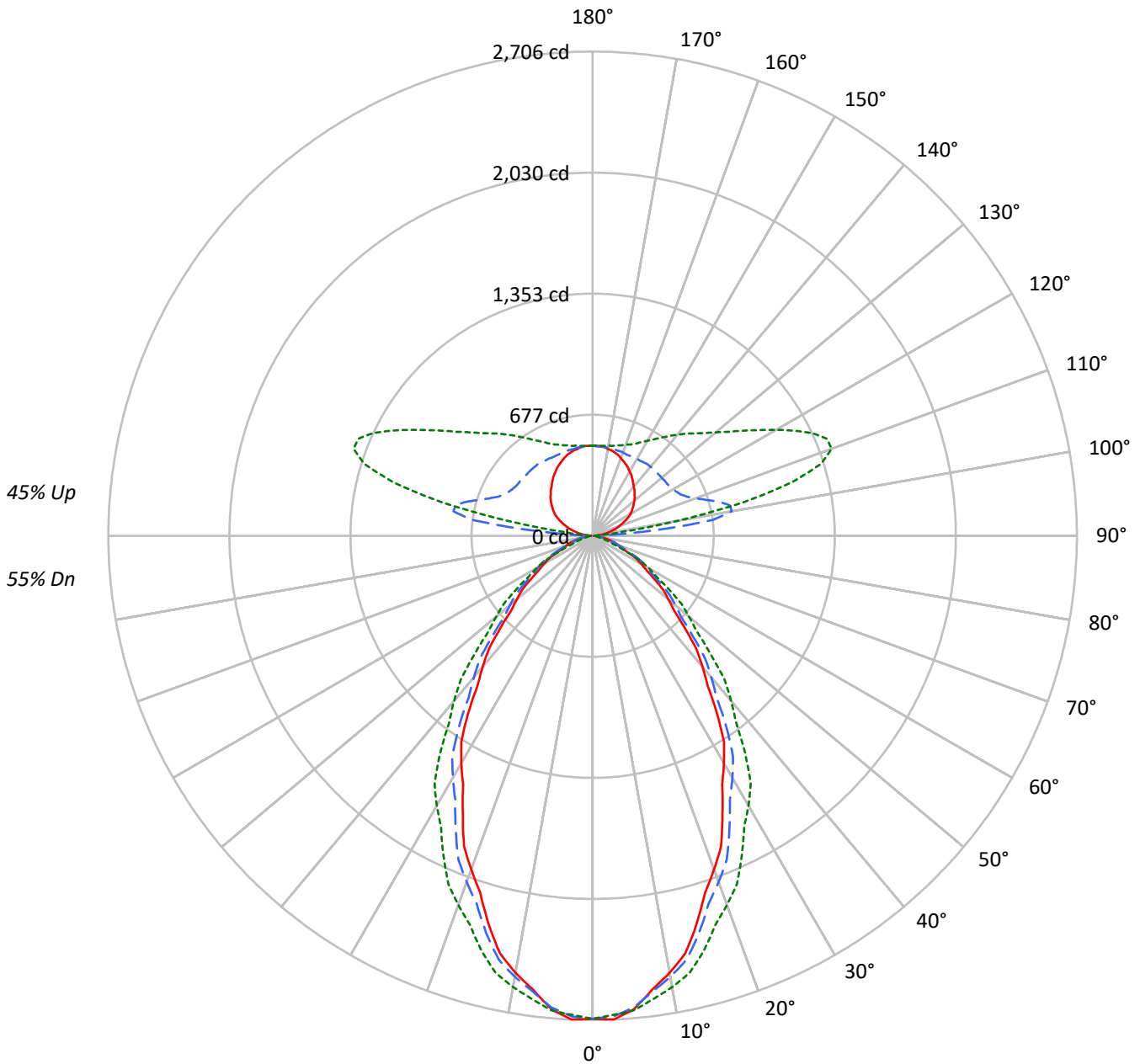
Lumens per Lamp: N/A
Luminaire Lumens: 7203.4 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.8
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	50	30	10	50	30	10	0				
RCR																															
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55													
1	100	96	93	90	93	90	87	84	77	75	73	66	64	63	55	54	53	48													
2	92	85	80	75	86	80	75	71	69	66	63	59	57	55	50	49	47	43													
3	85	76	70	64	79	71	66	61	62	58	54	54	50	48	46	43	42	38													
4	78	69	61	56	73	64	58	53	56	51	47	49	45	42	42	39	37	34													
5	73	62	54	49	67	58	51	46	51	46	42	44	41	38	38	35	33	30													
6	67	56	49	43	63	53	46	41	47	41	37	41	37	34	35	32	30	27													
7	63	51	44	38	58	48	42	37	43	37	34	38	33	30	33	30	27	25													
8	58	47	40	35	55	44	38	33	39	34	30	35	31	28	30	27	25	23													
9	55	43	36	31	51	41	34	30	36	31	28	32	28	25	28	25	23	21													
10	51	40	33	28	48	38	32	27	34	29	25	30	26	23	27	23	21	19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24904	24904	24904
5°	24595	24505	24649
10°	23236	23448	23990
15°	21449	21949	22933
20°	19480	20211	21547
25°	17472	18425	20076
30°	15622	16642	18548
35°	13660	14648	16743
40°	11496	12410	14494
45°	9488	10306	12102
50°	7920	8636	10080
55°	6725	7411	8324
60°	5750	6427	6645
65°	4578	5403	4290
70°	4057	4216	2619
75°	3754	3422	1608
80°	3459	3145	1381
85°	3123	2890	1143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	3.4
10°-20°	644.0	8.9
20°-30°	834.2	11.6
30°-40°	816.9	11.3
40°-50°	625.2	8.7
50°-60°	416.6	5.8
60°-70°	227.4	3.2
70°-80°	94.7	1.3
80°-90°	28.0	0.4
90°-100°	200.5	2.8
100°-110°	697.4	9.7
110°-120°	675.6	9.4
120°-130°	530.0	7.4
130°-140°	419.5	5.8
140°-150°	323.7	4.5
150°-160°	232.1	3.2
160°-170°	141.9	2.0
170°-180°	48.0	0.7
0°-30°	1725.8	24.0
0°-40°	2542.6	35.3
0°-60°	3584.5	49.8
0°-90°	3934.7	54.6
90°-120°	1573.5	21.8
90°-150°	2846.7	39.5
90°-180°	3269.0	45.4
0°-180°	7203.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2699	2699	2699	2699	2699	
5°	2656	2629	2646	2652	2662	247
15°	2246	2238	2298	2360	2401	627
25°	1716	1721	1810	1889	1972	789
35°	1213	1219	1300	1388	1486	754
45°	727	741	790	850	928	567
55°	418	436	461	478	518	379
65°	210	227	248	216	196	218
75°	105	105	96	66	45	113
85°	30	30	27	18	11	32
90°	8	11	11	8	4	6
95°	34	116	338	86	53	36
105°	116	165	733	1237	1150	122
115°	203	244	545	1150	1357	200
125°	274	338	507	857	1022	246
135°	331	372	504	714	808	256
145°	387	414	500	616	669	242
155°	440	455	492	549	568	203
165°	481	485	496	519	522	136
175°	504	504	500	507	504	48
180°	504	504	504	504	504	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2706.0	2681.9	2688.1	2687.8	2680.2
5°	2655.6	2628.8	2645.9	2652.1	2661.5
7.5°	2557.0	2536.8	2568.2	2591.3	2610.0
10°	2480.2	2462.8	2502.8	2536.5	2560.7
12.5°	2391.3	2376.4	2426.0	2471.1	2503.0
15°	2245.6	2237.6	2297.9	2360.3	2400.9
17.5°	2090.1	2086.1	2155.3	2228.2	2279.9
20°	1984.0	1982.9	2058.5	2134.7	2194.6
22.5°	1877.0	1879.3	1959.0	2038.1	2106.7
25°	1716.3	1720.9	1809.9	1888.7	1972.1
27.5°	1567.8	1569.9	1661.7	1745.0	1834.0
30°	1466.4	1472.1	1562.1	1648.5	1741.0
32.5°	1365.0	1371.8	1460.0	1549.0	1643.4
35°	1212.8	1218.7	1300.5	1388.1	1486.5
37.5°	1055.9	1063.9	1136.6	1219.2	1316.3
40°	954.5	966.3	1030.4	1108.5	1203.4
42.5°	856.9	871.5	931.0	1004.9	1090.5
45°	727.2	741.1	789.9	849.7	927.5
47.5°	615.4	631.4	669.0	720.5	786.7
50°	551.8	567.1	601.7	639.8	702.3
52.5°	496.1	511.1	541.9	571.4	624.8
55°	418.1	435.5	460.7	478.3	517.5
57.5°	354.2	370.9	390.9	398.7	422.6
60°	311.6	330.1	348.3	347.2	360.1
62.5°	272.7	288.5	306.5	293.9	294.7
65°	209.7	227.1	247.5	216.4	196.5
67.5°	169.5	173.0	194.1	151.0	127.3
70°	150.4	150.4	156.3	116.9	97.1
72.5°	132.5	132.5	127.1	94.9	74.2
75°	105.3	105.3	96.0	66.0	45.1
77.5°	81.2	80.4	73.5	49.0	32.8
80°	65.1	65.1	59.2	38.9	26.0
82.5°	51.0	51.0	45.8	30.3	19.3
85°	29.5	29.5	27.3	17.7	10.8
87.5°	10.5	10.5	9.4	5.6	4.8
90°	7.6	11.2	11.2	7.6	3.8
92.5°	18.8	56.4	52.6	22.6	18.8
95°	33.8	116.5	338.3	86.4	52.6
97.5°	52.6	131.6	676.6	308.3	165.4
100°	71.4	139.1	789.3	740.5	477.4
102.5°	94.0	150.3	785.5	1041.2	856.9
105°	116.5	165.4	732.9	1236.6	1150.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.4	221.7	571.4	1244.1	1417.1
115°	202.9	244.3	545.0	1150.2	1356.9
117.5°	225.5	270.7	530.0	1063.7	1270.4
120°	244.3	293.1	518.7	981.0	1184.0
122.5°	259.3	315.7	511.2	913.3	1097.6
125°	274.3	338.3	507.4	856.9	1022.4
127.5°	289.5	353.3	507.4	815.7	954.7
130°	304.5	360.9	503.6	774.3	898.3
132.5°	319.5	364.6	503.6	744.2	849.5
135°	330.7	372.1	503.6	714.2	808.1
137.5°	345.8	379.6	503.6	687.8	774.3
140°	357.1	390.9	503.6	661.5	736.7
142.5°	372.1	402.2	503.6	635.2	702.9
145°	387.1	413.5	499.9	616.4	669.0
147.5°	402.2	424.7	496.2	597.6	639.0
150°	413.5	436.0	496.2	578.8	612.6
152.5°	428.5	447.3	492.4	560.0	590.2
155°	439.8	454.8	492.4	548.8	567.6
157.5°	451.0	466.1	492.4	537.5	552.6
160°	462.3	473.6	496.2	530.0	541.2
162.5°	473.6	481.1	496.2	522.4	530.0
165°	481.1	484.9	496.2	518.7	522.4
167.5°	488.6	492.4	496.2	515.0	515.0
170°	492.4	496.2	499.9	511.2	511.2
172.5°	499.9	499.9	499.9	507.4	507.4
175°	503.6	503.6	499.9	507.4	503.6
177.5°	503.6	503.6	499.9	507.4	503.6
180°	503.6	503.6	503.6	503.6	503.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	139.1	184.2	665.3	1323.1	1338.1
110°	157.9	202.9	612.6	1311.8	1420.7



(END OF REPORT)