

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: P845261

Luminaire Tested: **SQ4P-PW1-075U-125D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845261
REPORT IS A COMBINATION OF REPORTS P700238 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-075U-125D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

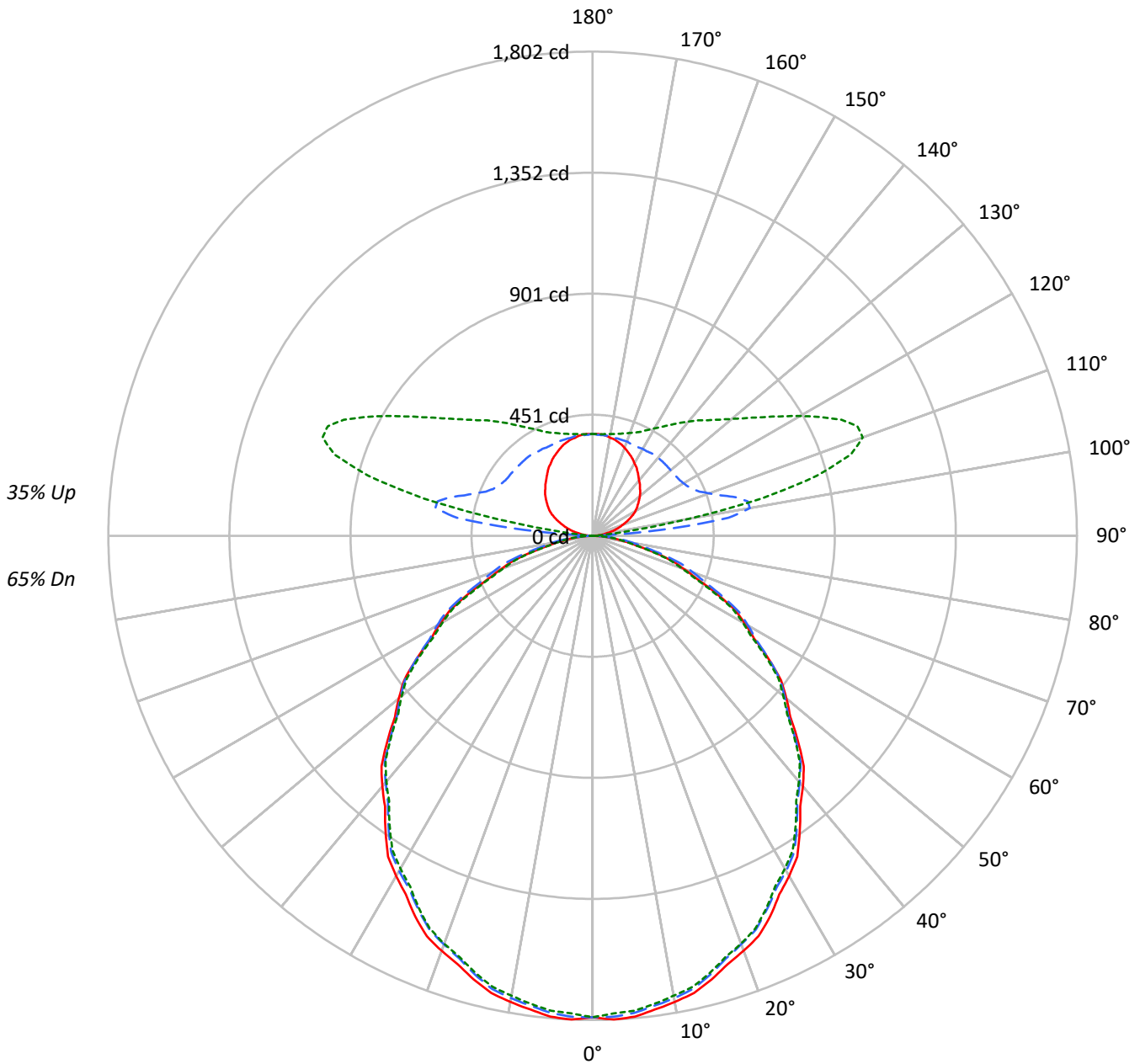
Lumens per Lamp: N/A
Luminaire Lumens: 7020.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.8
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									
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	70	70	70	65																
1	101	97	93	89	95	91	88	85	81	78	76	71	69	67	62	61	59	59	59	59	55																
2	92	85	79	73	87	80	74	70	71	67	63	62	59	56	55	52	50	50	50	46																	
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	45	43	43	43	39																	
4	77	66	58	52	72	63	55	50	56	50	45	49	45	41	43	40	37	37	37	34																	
5	71	59	51	45	66	56	48	43	50	44	39	44	39	36	39	35	32	32	32	29																	
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	28	32	32	26																	
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	32	28	25	32	32	23																	
8	56	44	36	30	53	42	34	29	37	31	27	34	28	25	30	26	23	30	30	20																	
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	28	28	18																	
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	26	26	17																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16532	16532	16532
5°	16640	16509	16435
10°	16506	16373	16284
15°	16331	16151	16091
20°	16136	15888	15859
25°	15911	15622	15572
30°	15575	15341	15239
35°	15133	14918	14830
40°	14661	14432	14377
45°	14089	13906	13842
50°	13508	13395	13301
55°	12875	12875	12672
60°	12092	12324	11887
65°	11062	11614	10789
70°	9749	10688	9501
75°	8334	9564	8099
80°	6461	8055	6551
85°	4171	6193	5505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	2.4
10°-20°	476.4	6.8
20°-30°	706.6	10.1
30°-40°	826.8	11.8
40°-50°	823.2	11.7
50°-60°	710.8	10.1
60°-70°	511.7	7.3
70°-80°	268.3	3.8
80°-90°	67.5	1.0
90°-100°	150.9	2.1
100°-110°	525.0	7.5
110°-120°	508.6	7.2
120°-130°	398.9	5.7
130°-140°	315.7	4.5
140°-150°	243.7	3.5
150°-160°	174.7	2.5
160°-170°	106.8	1.5
170°-180°	36.1	0.5
0°-30°	1351.8	19.3
0°-40°	2178.6	31.0
0°-60°	3712.6	52.9
0°-90°	4560.1	65.0
90°-120°	1184.4	16.9
90°-150°	2142.8	30.5
90°-180°	2460.0	35.0
0°-180°	7020.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1797	1777	1783	1778	1775	170
15°	1710	1688	1691	1688	1685	482
25°	1563	1537	1535	1525	1530	719
35°	1344	1325	1324	1312	1317	840
45°	1080	1071	1066	1062	1061	833
55°	800	799	800	790	788	714
65°	507	522	532	511	494	502
75°	234	255	268	250	227	250
85°	39	52	58	55	52	52
90°	6	8	8	6	3	5
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1791.9	1791.9	1791.9	1791.9	1791.9
2.5°	1802.1	1787.2	1791.9	1788.0	1779.3
5°	1796.7	1776.6	1782.6	1777.7	1774.6
7.5°	1778.4	1760.0	1764.1	1759.2	1757.2
10°	1761.9	1743.3	1747.7	1741.5	1738.2
12.5°	1743.1	1723.3	1727.6	1721.0	1719.4
15°	1709.8	1688.1	1690.9	1687.5	1684.6
17.5°	1671.3	1649.5	1649.8	1644.9	1644.0
20°	1643.5	1620.3	1618.2	1611.9	1615.2
22.5°	1613.3	1588.8	1586.6	1577.9	1582.2
25°	1563.0	1536.8	1534.6	1525.1	1529.7
27.5°	1504.9	1479.1	1479.1	1465.8	1470.7
30°	1462.0	1437.2	1440.0	1424.1	1430.4
32.5°	1416.5	1394.2	1395.5	1380.1	1386.3
35°	1343.6	1325.1	1324.5	1312.1	1316.7
37.5°	1269.0	1252.7	1249.9	1242.9	1244.0
40°	1217.3	1203.4	1198.3	1193.7	1193.7
42.5°	1162.8	1150.4	1145.2	1141.7	1140.5
45°	1079.8	1070.6	1065.8	1062.4	1060.9
47.5°	997.6	989.2	984.9	982.7	981.1
50°	941.1	934.8	933.2	928.3	926.7
52.5°	884.2	880.4	878.8	872.8	871.1
55°	800.4	799.0	800.4	789.5	787.8
57.5°	713.3	715.7	720.9	705.9	702.1
60°	655.3	661.3	667.9	650.5	644.2
62.5°	595.8	605.8	614.7	594.7	586.0
65°	506.7	522.3	532.0	511.1	494.2
67.5°	421.0	440.1	451.8	429.5	410.1
70°	361.4	383.2	396.2	373.6	352.2
72.5°	309.7	333.9	344.6	323.0	301.5
75°	233.8	255.3	268.3	250.4	227.2
77.5°	165.8	186.1	197.0	181.5	162.2
80°	121.6	143.2	151.6	138.6	123.3
82.5°	86.3	104.2	110.0	102.1	91.4
85°	39.4	51.7	58.5	55.3	52.0
87.5°	10.1	18.8	24.0	24.0	25.3
90°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)