

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: P845093

Luminaire Tested: **SQ4P-PP3-075U-125D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845093
REPORT IS A COMBINATION OF REPORTS P700230 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-075U-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

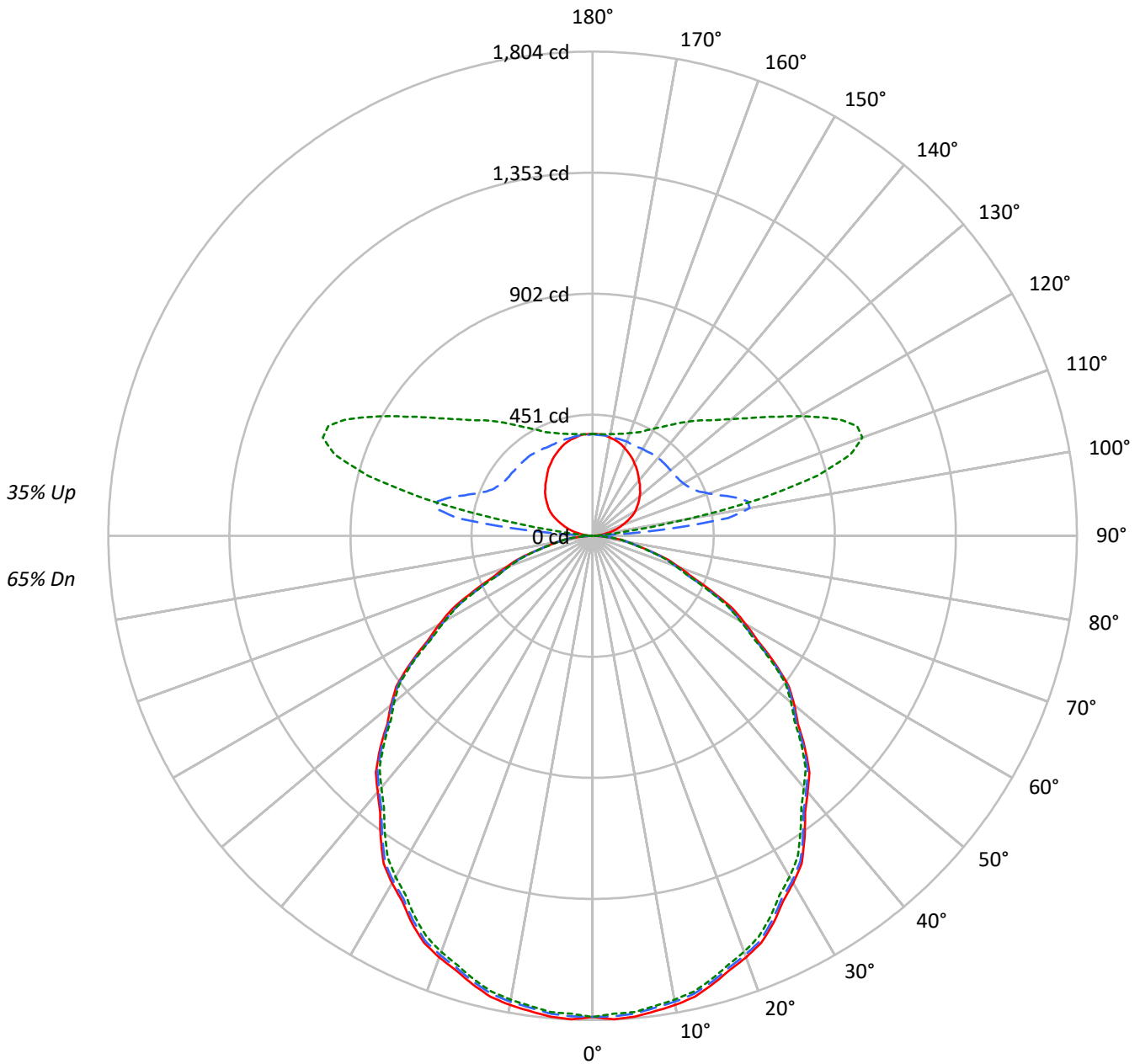
Lumens per Lamp: N/A
Luminaire Lumens: 7048.9 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	90	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55																
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	51	51	51	47																
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	43	43	43	40																
4	78	67	59	52	73	63	56	50	56	50	46	50	45	42	44	40	37	37	37	37	34																
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	33	33	33	30																
6	66	53	45	39	62	51	43	38	45	39	35	41	36	32	36	32	29	29	29	29	26																
7	61	48	40	35	57	46	38	33	41	35	31	37	32	28	33	29	26	26	26	26	23																
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	23	23	23	21																
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	21	21	21	19																
10	49	37	30	25	46	35	28	24	32	26	22	29	24	21	26	22	19	19	19	19	17																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16537	16537	16537
5°	16659	16555	16498
10°	16630	16514	16441
15°	16521	16430	16339
20°	16410	16317	16195
25°	16215	16105	15945
30°	15916	15832	15631
35°	15500	15393	15197
40°	15002	14908	14738
45°	14595	14494	14347
50°	14069	13980	13844
55°	13340	13166	13066
60°	12145	11800	11741
65°	10704	10252	10217
70°	9234	8856	8856
75°	7956	7839	7725
80°	7008	7098	6918
85°	5483	5992	5992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.5	2.4
10°-20°	483.9	6.9
20°-30°	724.9	10.3
30°-40°	850.2	12.1
40°-50°	852.9	12.1
50°-60°	727.6	10.3
60°-70°	474.5	6.7
70°-80°	238.1	3.4
80°-90°	66.8	0.9
90°-100°	150.9	2.1
100°-110°	525.0	7.4
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°	1378.3	19.6
0°-40°	2228.6	31.6
0°-60°	3809.1	54.0
0°-90°	4588.5	65.1
90°-120°	1184.4	16.8
90°-150°	2142.8	30.4
90°-180°	2460.0	34.9
0°-180°	7048.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1799	1782	1788	1781	1781	171
15°	1730	1713	1720	1714	1711	488
25°	1593	1574	1582	1568	1566	732
35°	1376	1362	1367	1351	1349	860
45°	1119	1111	1111	1100	1100	861
55°	829	826	818	814	812	737
65°	490	481	470	467	468	489
75°	223	223	220	218	217	242
85°	52	56	57	57	57	61
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°	1792.4	1792.4	1792.4	1792.4	1792.4
2.5°	1803.6	1788.9	1792.4	1789.8	1782.5
5°	1798.7	1781.9	1787.5	1781.4	1781.4
7.5°	1786.5	1768.1	1773.7	1767.6	1767.3
10°	1775.1	1756.7	1762.7	1756.1	1754.9
12.5°	1758.9	1740.5	1747.5	1739.9	1739.7
15°	1729.6	1712.6	1720.1	1713.7	1710.6
17.5°	1696.5	1678.1	1687.1	1678.4	1677.1
20°	1671.4	1653.0	1661.9	1649.5	1649.5
22.5°	1641.3	1623.0	1633.2	1616.7	1616.7
25°	1592.8	1574.4	1582.0	1567.7	1566.3
27.5°	1535.5	1517.3	1525.1	1508.9	1508.7
30°	1494.0	1476.9	1486.1	1468.8	1467.2
32.5°	1448.8	1433.0	1439.6	1422.2	1420.6
35°	1376.2	1362.4	1366.7	1351.0	1349.3
37.5°	1299.8	1285.7	1290.6	1277.0	1276.5
40°	1245.6	1236.4	1237.8	1226.6	1223.7
42.5°	1195.5	1184.9	1186.3	1175.2	1174.7
45°	1118.6	1110.8	1110.8	1099.6	1099.6
47.5°	1036.8	1030.8	1029.3	1020.1	1019.8
50°	980.2	975.6	974.0	966.1	964.5
52.5°	921.1	919.0	913.6	907.0	906.8
55°	829.3	826.4	818.5	813.6	812.3
57.5°	729.9	723.7	714.7	708.0	709.1
60°	658.2	651.9	639.5	636.3	636.3
62.5°	589.1	581.8	569.0	564.7	567.2
65°	490.3	481.1	469.6	466.7	468.0
67.5°	400.3	391.9	379.7	379.7	378.6
70°	342.3	337.7	328.3	328.3	328.3
72.5°	290.9	288.7	281.9	281.7	280.6
75°	223.2	223.2	219.9	218.3	216.7
77.5°	167.1	167.6	166.3	164.7	161.7
80°	131.9	135.1	133.6	131.9	130.2
82.5°	99.4	102.4	102.1	99.4	98.8
85°	51.8	56.4	56.6	56.6	56.6
87.5°	13.8	18.7	20.1	20.1	21.4
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)