

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: P845336

Luminaire Tested: **SQ4P-WB-075U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845336
REPORT IS A COMBINATION OF REPORTS P700239 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-075U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

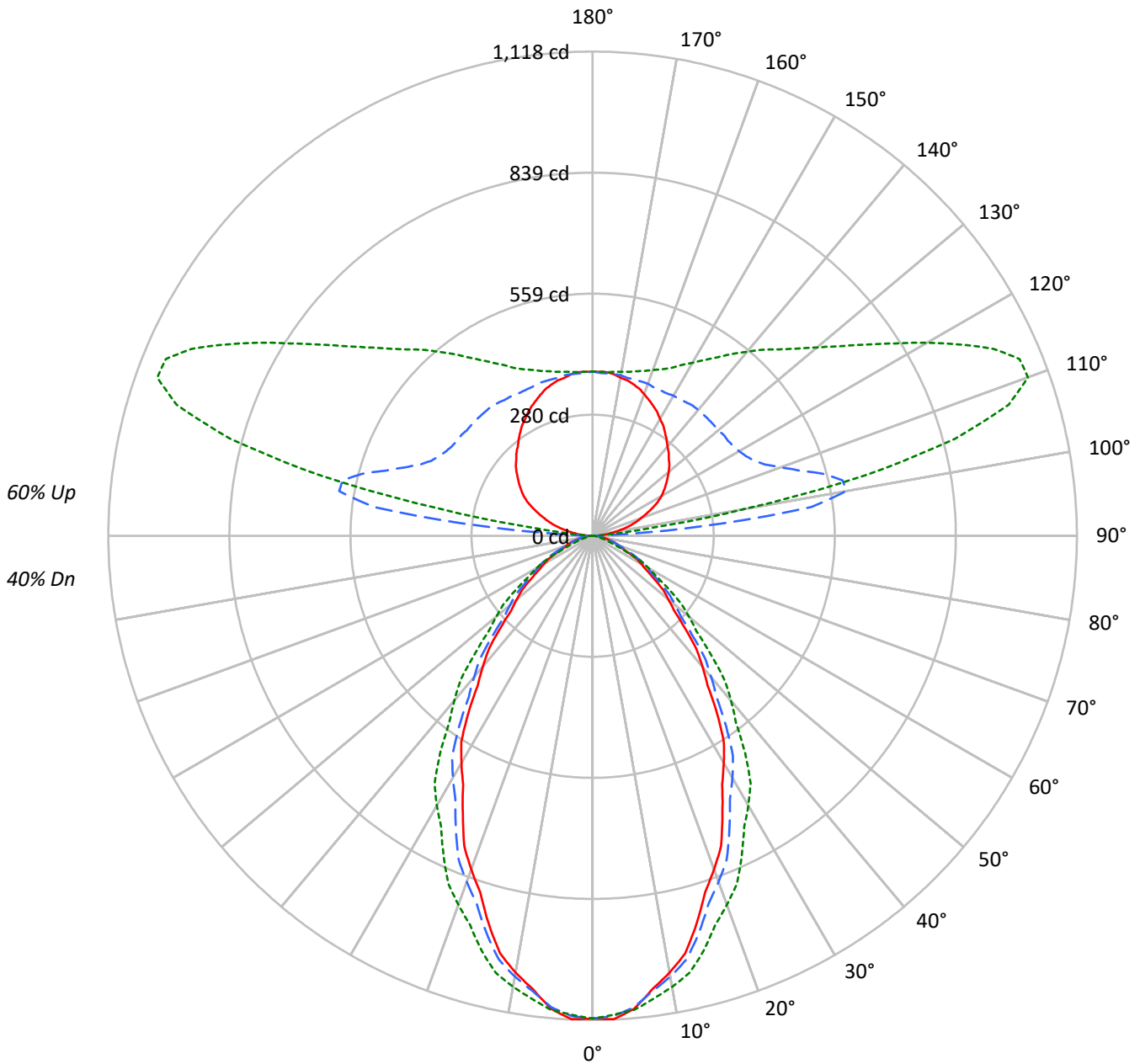
Lumens per Lamp: N/A
Luminaire Lumens: 4085.7 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.8
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40																			
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35																			
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	37	36	31																			
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	28																			
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	25																			
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22																			
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20																			
7	59	48	41	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18																			
8	55	44	36	32	50	41	34	30	34	30	26	29	25	22	23	21	19	16																			
9	52	40	33	28	47	37	31	27	32	27	24	27	23	20	22	19	17	15																			
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10285	10285	10285
5°	10157	10121	10179
10°	9596	9683	9907
15°	8858	9065	9470
20°	8045	8347	8898
25°	7216	7609	8292
30°	6452	6874	7660
35°	5641	6048	6916
40°	4748	5126	5986
45°	3918	4258	4997
50°	3271	3567	4162
55°	2776	3059	3437
60°	2375	2653	2744
65°	1891	2231	1770
70°	1675	1743	1082
75°	1551	1412	663
80°	1429	1302	574
85°	1281	1196	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	2.5
10°-20°	266.0	6.5
20°-30°	344.5	8.4
30°-40°	337.3	8.3
40°-50°	258.2	6.3
50°-60°	172.1	4.2
60°-70°	93.9	2.3
70°-80°	39.1	1.0
80°-90°	12.0	0.3
90°-100°	150.9	3.7
100°-110°	525.0	12.8
110°-120°	508.6	12.4
120°-130°	398.9	9.8
130°-140°	315.7	7.7
140°-150°	243.7	6.0
150°-160°	174.7	4.3
160°-170°	106.8	2.6
170°-180°	36.1	0.9
0°-30°	712.7	17.4
0°-40°	1050.0	25.7
0°-60°	1480.3	36.2
0°-90°	1625.3	39.8
90°-120°	1184.4	29.0
90°-150°	2142.8	52.4
90°-180°	2460.0	60.2
0°-180°	4085.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1097	1086	1093	1095	1099	102
15°	927	924	949	975	992	259
25°	709	711	747	780	814	326
35°	501	503	537	573	614	311
45°	300	306	326	351	383	234
55°	173	180	190	198	214	157
65°	87	94	102	89	81	90
75°	44	44	40	27	19	46
85°	12	12	11	7	4	13
90°	6	8	8	6	3	4
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°	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1117.5	1107.5	1110.1	1110.0	1106.9
5°	1096.7	1085.6	1092.8	1095.3	1099.1
7.5°	1056.0	1047.7	1060.6	1070.2	1077.9
10°	1024.3	1017.1	1033.6	1047.6	1057.5
12.5°	987.6	981.4	1002.0	1020.5	1033.7
15°	927.4	924.1	949.0	974.7	991.5
17.5°	863.2	861.5	890.1	920.2	941.6
20°	819.4	818.9	850.1	881.6	906.3
22.5°	775.1	776.1	809.0	841.7	870.0
25°	708.8	710.7	747.4	780.0	814.5
27.5°	647.4	648.3	686.2	720.6	757.4
30°	605.6	607.9	645.2	680.8	719.0
32.5°	563.8	566.5	603.0	639.7	678.7
35°	500.8	503.3	537.0	573.2	614.0
37.5°	436.0	439.4	469.4	503.5	543.6
40°	394.2	399.1	425.6	457.8	497.0
42.5°	353.9	359.9	384.5	415.0	450.3
45°	300.3	306.1	326.3	350.9	383.0
47.5°	254.1	260.8	276.2	297.6	324.9
50°	227.9	234.2	248.5	264.2	290.0
52.5°	204.8	211.1	223.8	235.9	258.0
55°	172.6	179.9	190.2	197.6	213.7
57.5°	146.3	153.1	161.5	164.7	174.5
60°	128.7	136.3	143.8	143.4	148.7
62.5°	112.6	119.2	126.5	121.3	121.7
65°	86.6	93.7	102.2	89.3	81.1
67.5°	70.0	71.4	80.1	62.3	52.6
70°	62.1	62.1	64.6	48.2	40.1
72.5°	54.7	54.7	52.5	39.2	30.6
75°	43.5	43.5	39.6	27.2	18.6
77.5°	33.6	33.2	30.3	20.3	13.5
80°	26.9	26.9	24.5	16.0	10.8
82.5°	21.0	21.0	19.0	12.5	7.9
85°	12.1	12.1	11.3	7.3	4.4
87.5°	4.3	4.3	3.9	2.3	2.0
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)