

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: P845324

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845324
REPORT IS A COMBINATION OF REPORTS P700211 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-050U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 500 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

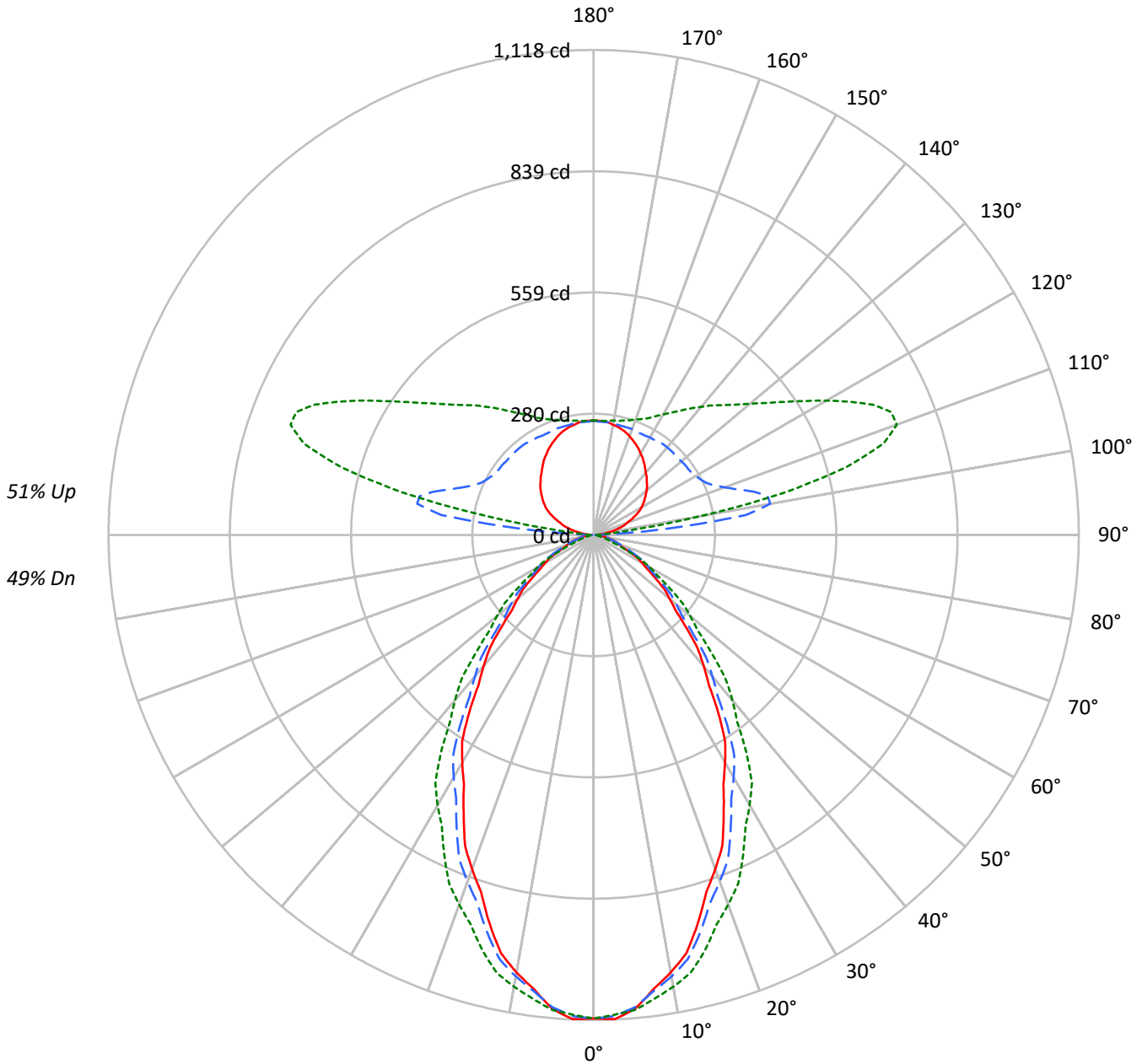
Lumens per Lamp: N/A
Luminaire Lumens: 3335.2 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 29.8
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

TEST NUMBER: P845324

CATALOG NUMBER: SQ4P-WB-050U-050D-B35-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845324

CATALOG NUMBER: SQ4P-WB-050U-050D-B35-1D-UNV

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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49								
1	99	95	91	88	91	88	85	82	74	72	70	62	60	59	50	49	49	43								
2	91	84	79	74	84	78	73	69	66	63	60	56	53	51	46	44	43	38								
3	84	75	68	63	77	70	64	59	60	55	52	50	47	45	42	39	38	34								
4	77	67	60	54	71	62	56	51	54	49	45	46	42	39	38	36	34	30								
5	71	60	53	47	66	56	50	45	49	44	40	42	38	35	35	32	30	27								
6	66	55	47	42	61	51	45	40	44	39	35	38	34	31	32	29	27	24								
7	61	50	42	37	57	47	40	35	41	35	32	35	31	28	30	27	25	22								
8	57	46	38	33	53	43	36	32	37	32	29	32	28	26	28	25	22	20								
9	53	42	35	30	50	39	33	29	35	30	26	30	26	23	26	23	21	19								
10	50	39	32	27	47	36	30	26	32	27	24	28	24	21	24	21	19	17								

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



TEST NUMBER: P845324

CATALOG NUMBER: SQ4P-WB-050U-050D-B35-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	3.1
10°-20°	266.0	8.0
20°-30°	344.5	10.3
30°-40°	337.3	10.1
40°-50°	258.2	7.7
50°-60°	172.1	5.2
60°-70°	93.9	2.8
70°-80°	39.1	1.2
80°-90°	11.7	0.4
90°-100°	104.9	3.1
100°-110°	364.9	10.9
110°-120°	353.5	10.6
120°-130°	277.3	8.3
130°-140°	219.5	6.6
140°-150°	169.4	5.1
150°-160°	121.4	3.6
160°-170°	74.3	2.2
170°-180°	25.1	0.8
0°-30°	712.7	21.4
0°-40°	1050.0	31.5
0°-60°	1480.3	44.4
0°-90°	1625.0	48.7
90°-120°	823.3	24.7
90°-150°	1489.4	44.7
90°-180°	1710.0	51.3
0°-180°	3335.2	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°	4	6	6	4	2	3
95°	18	61	177	45	28	19
105°	61	86	384	647	602	64
115°	106	128	285	602	710	105
125°	144	177	266	448	535	129
135°	173	195	264	374	423	134
145°	203	216	262	322	350	127
155°	230	238	258	287	297	106
165°	252	254	260	271	273	71
175°	264	264	262	266	264	25
180°	264	264	264	264	264	



TEST NUMBER: P845324

CATALOG NUMBER: SQ4P-WB-050U-050D-B35-1D-UNV

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°	3.9	5.9	5.9	3.9	2.0
92.5°	9.8	29.5	27.5	11.8	9.8
95°	17.7	61.0	177.0	45.2	27.5
97.5°	27.5	68.8	353.9	161.3	86.5
100°	37.4	72.8	413.0	387.4	249.7
102.5°	49.1	78.7	411.0	544.7	448.4
105°	61.0	86.5	383.5	646.9	601.7



TEST NUMBER: P845324

CATALOG NUMBER: SQ4P-WB-050U-050D-B35-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.4	116.1	299.0	650.9	741.4
115°	106.2	127.8	285.2	601.7	709.9
117.5°	118.0	141.6	277.2	556.5	664.6
120°	127.8	153.3	271.4	513.3	619.4
122.5°	135.7	165.2	267.4	477.8	574.2
125°	143.6	177.0	265.5	448.4	534.9
127.5°	151.4	184.9	265.5	426.8	499.5
130°	159.3	188.8	263.5	405.1	470.0
132.5°	167.1	190.7	263.5	389.4	444.5
135°	173.0	194.6	263.5	373.6	422.8
137.5°	180.9	198.6	263.5	359.8	405.1
140°	186.8	204.5	263.5	346.1	385.5
142.5°	194.6	210.4	263.5	332.3	367.7
145°	202.6	216.4	261.6	322.5	350.0
147.5°	210.4	222.2	259.6	312.7	334.3
150°	216.4	228.1	259.6	302.9	320.6
152.5°	224.2	234.0	257.7	293.0	308.7
155°	230.1	238.0	257.7	287.1	296.9
157.5°	235.9	243.9	257.7	281.2	289.1
160°	241.9	247.8	259.6	277.2	283.2
162.5°	247.8	251.7	259.6	273.3	277.2
165°	251.7	253.6	259.6	271.4	273.3
167.5°	255.6	257.7	259.6	269.4	269.4
170°	257.7	259.6	261.6	267.4	267.4
172.5°	261.6	261.6	261.6	265.5	265.5
175°	263.5	263.5	261.6	265.5	263.5
177.5°	263.5	263.5	261.6	265.5	263.5
180°	263.5	263.5	263.5	263.5	263.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	72.8	96.4	348.1	692.2	700.1
110°	82.6	106.2	320.6	686.3	743.3



(END OF REPORT)