

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: P844832

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844832
REPORT IS A COMBINATION OF REPORTS P700215 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-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: -

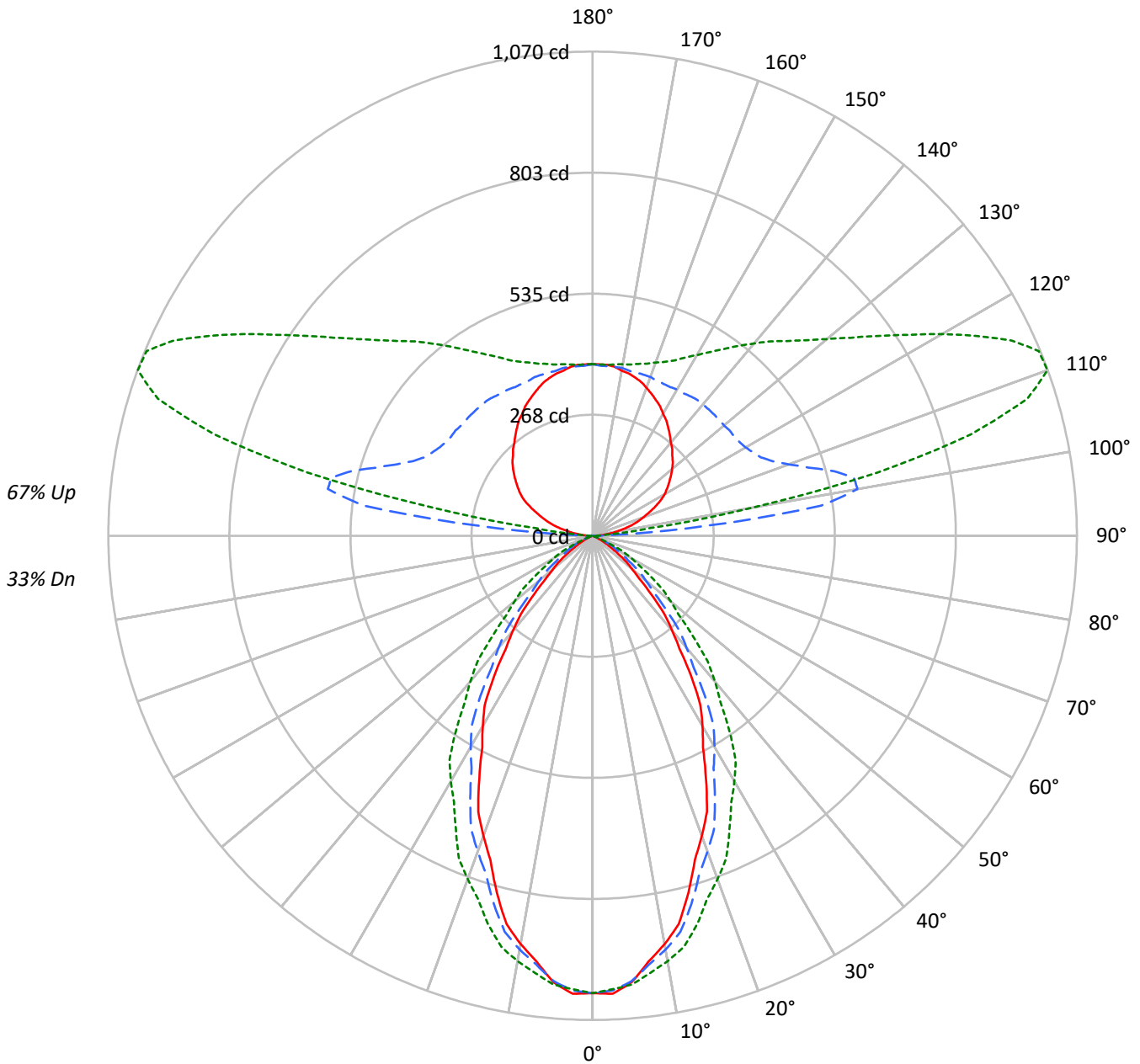
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33																			
1	95	91	88	85	86	83	80	77	66	64	63	51	50	49	37	37	36	30																			
2	88	81	76	71	79	74	69	65	60	57	54	47	45	43	34	33	32	27																			
3	81	72	66	61	73	66	60	56	54	50	47	42	40	38	32	30	29	24																			
4	74	65	58	53	67	59	53	49	48	44	41	38	36	33	29	28	26	22																			
5	69	58	51	46	62	53	47	43	44	39	36	35	32	30	27	25	24	20																			
6	64	53	46	40	58	48	42	38	40	35	32	32	29	27	25	23	21	18																			
7	59	48	41	36	54	44	38	33	37	32	29	30	26	24	23	21	20	17																			
8	55	44	37	32	50	40	34	30	34	29	26	27	24	22	21	19	18	16																			
9	51	40	33	29	47	37	31	27	31	27	23	25	22	20	20	18	17	14																			
10	48	37	30	26	44	34	28	24	29	24	21	24	21	18	19	17	15	13																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9325	9325	9325
5°	9174	9152	9220
10°	8583	8700	8941
15°	7804	8051	8500
20°	6927	7287	7925
25°	6032	6510	7282
30°	5168	5735	6672
35°	4284	4868	5937
40°	3292	3893	5058
45°	2380	2949	4071
50°	1621	2195	3230
55°	1055	1588	2509
60°	605	1120	1814
65°	159	683	919
70°	81	210	264
75°	36	18	0
80°	27	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	2.5
10°-20°	235.9	6.4
20°-30°	295.3	8.1
30°-40°	272.7	7.4
40°-50°	183.3	5.0
50°-60°	94.7	2.6
60°-70°	29.6	0.8
70°-80°	1.9	0.1
80°-90°	1.0	0.0
90°-100°	150.9	4.1
100°-110°	525.0	14.3
110°-120°	508.6	13.9
120°-130°	398.9	10.9
130°-140°	315.7	8.6
140°-150°	243.7	6.6
150°-160°	174.7	4.8
160°-170°	106.8	2.9
170°-180°	36.1	1.0
0°-30°	623.4	17.0
0°-40°	896.1	24.4
0°-60°	1174.1	32.0
0°-90°	1206.5	32.9
90°-120°	1184.4	32.3
90°-150°	2142.8	58.4
90°-180°	2460.0	67.1
0°-180°	3667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	991	980	988	992	996	92
15°	817	814	843	871	890	228
25°	592	597	640	683	715	272
35°	380	390	432	483	527	236
45°	182	193	226	270	312	143
55°	66	76	99	127	156	61
65°	7	14	31	38	42	12
75°	1	1	0	0	0	1
85°	0	0	0	0	0	0
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°	1010.7	1010.7	1010.7	1010.7	1010.7
2.5°	1013.0	1003.4	1005.9	1005.9	1003.2
5°	990.6	980.5	988.2	991.6	995.5
7.5°	948.8	940.9	955.6	966.3	974.4
10°	916.2	909.6	928.6	943.3	954.4
12.5°	878.7	873.5	896.4	916.9	930.9
15°	817.0	814.2	842.9	871.2	889.9
17.5°	751.0	750.9	783.6	818.9	841.3
20°	705.5	707.0	742.2	781.0	807.2
22.5°	660.1	663.5	701.1	741.6	771.7
25°	592.5	597.3	639.5	683.3	715.3
27.5°	527.6	534.7	579.0	624.4	663.5
30°	485.1	493.2	538.3	586.2	626.3
32.5°	443.1	452.9	496.8	547.5	588.3
35°	380.4	390.0	432.2	483.1	527.1
37.5°	315.6	324.9	366.2	416.3	463.8
40°	273.3	283.8	323.2	371.8	420.0
42.5°	235.1	245.5	282.5	330.2	375.8
45°	182.4	193.4	226.0	269.9	312.0
47.5°	138.9	150.7	179.2	219.1	257.4
50°	112.9	124.9	152.9	188.1	225.0
52.5°	92.2	103.8	129.2	162.1	195.9
55°	65.6	76.5	98.7	126.8	156.0
57.5°	45.3	54.8	74.8	98.1	121.0
60°	32.8	41.9	60.7	79.6	98.3
62.5°	21.8	30.1	48.4	63.1	75.6
65°	7.3	14.1	31.3	37.8	42.1
67.5°	3.7	4.4	16.3	17.4	18.8
70°	3.0	3.0	7.8	8.3	9.8
72.5°	2.1	2.1	3.1	4.0	4.3
75°	1.0	1.0	0.5	0.0	0.0
77.5°	0.5	0.5	0.5	0.0	0.0
80°	0.5	0.5	0.0	0.0	0.0
82.5°	0.1	0.1	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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)