

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: P844820

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844820
REPORT IS A COMBINATION OF REPORTS P700187 AND P700244
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-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

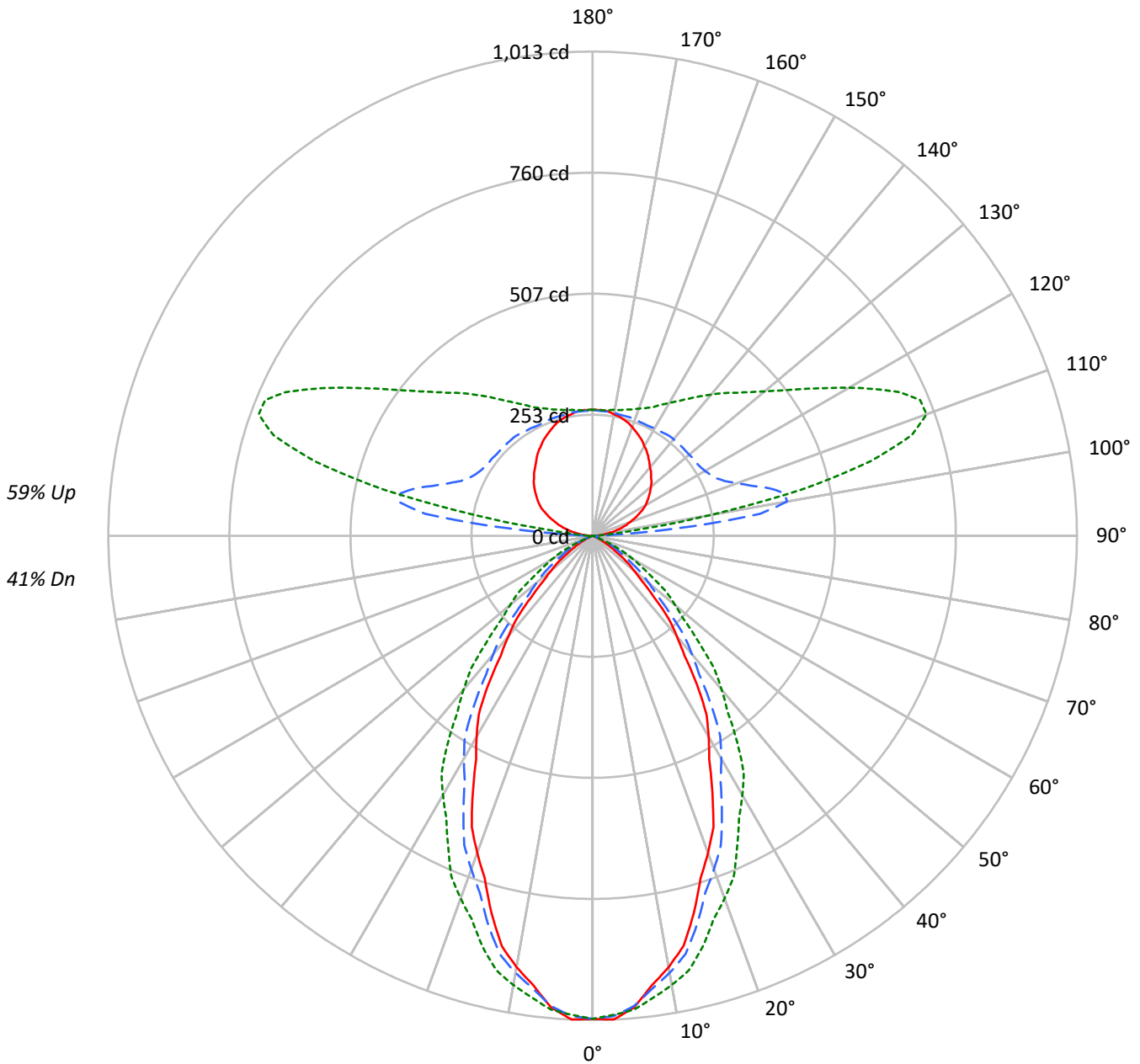
Lumens per Lamp: N/A
Luminaire Lumens: 2916.4 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P844820

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

Luminous Intensity Polar Plot





TEST NUMBER: P844820

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

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	96	96	96	96	79	79	79	63	63	63	48	48	48	41																			
1	97	94	90	87	89	86	83	80	71	69	67	57	56	55	45	44	44	38																			
2	90	83	78	74	82	77	72	69	64	61	58	52	50	48	41	40	39	34																			
3	83	75	68	63	76	69	63	59	58	54	51	48	45	43	38	36	35	31																			
4	77	67	60	55	70	62	56	52	52	48	45	43	40	38	35	33	32	28																			
5	71	61	54	48	65	56	50	45	48	43	40	40	37	34	32	30	29	25																			
6	66	55	48	43	60	51	45	40	44	39	35	37	33	31	30	28	26	23																			
7	61	50	43	38	56	47	40	36	40	35	32	34	30	28	28	26	24	21																			
8	57	46	39	34	53	43	37	32	37	32	29	31	28	25	26	24	22	19																			
9	53	42	36	31	49	40	33	29	34	29	26	29	26	23	24	22	20	18																			
10	50	39	32	28	46	37	31	27	32	27	24	27	24	21	23	20	19	17																			

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



TEST NUMBER: P844820

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.2
10°-20°	235.9	8.1
20°-30°	295.3	10.1
30°-40°	272.7	9.4
40°-50°	183.3	6.3
50°-60°	94.7	3.2
60°-70°	29.6	1.0
70°-80°	1.9	0.1
80°-90°	0.7	0.0
90°-100°	104.9	3.6
100°-110°	364.9	12.5
110°-120°	353.5	12.1
120°-130°	277.3	9.5
130°-140°	219.5	7.5
140°-150°	169.4	5.8
150°-160°	121.4	4.2
160°-170°	74.3	2.5
170°-180°	25.1	0.9
0°-30°	623.4	21.4
0°-40°	896.1	30.7
0°-60°	1174.1	40.3
0°-90°	1206.3	41.4
90°-120°	823.3	28.2
90°-150°	1489.4	51.1
90°-180°	1710.0	58.6
0°-180°	2916.4	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°	4	6	6	4	2	2
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: P844820

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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°	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: P844820

CATALOG NUMBER: SQ4P-BB-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)