

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: P845038

Luminaire Tested: **SQ4P-PC3-125U-050D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845038
REPORT IS A COMBINATION OF REPORTS P700111 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-125U-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

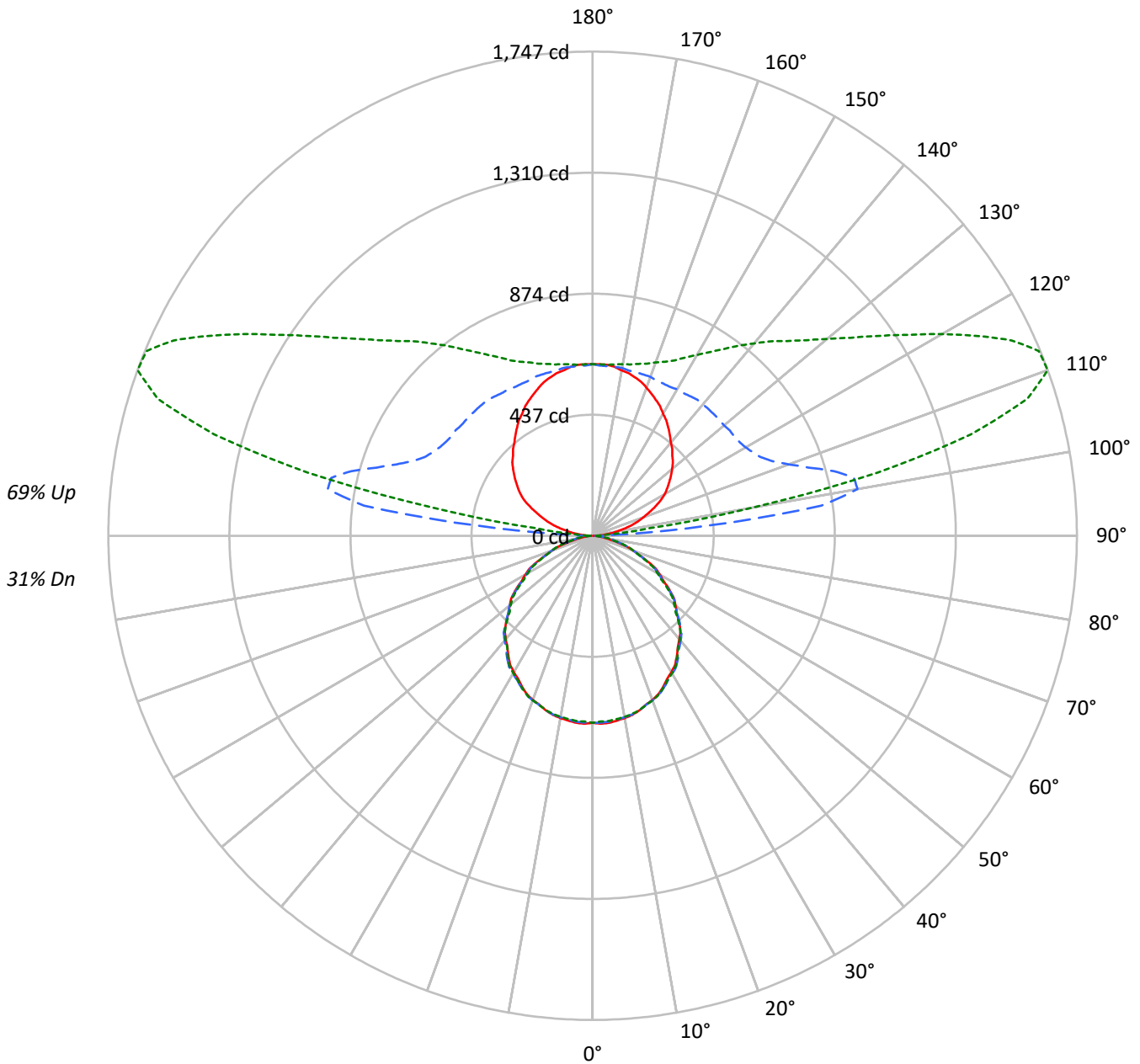
Lumens per Lamp: N/A
Luminaire Lumens: 5862.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 50.8
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				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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6227	6227	6227
5°	6276	6234	6211
10°	6259	6230	6212
15°	6227	6227	6221
20°	6187	6204	6204
25°	6127	6171	6152
30°	6052	6125	6099
35°	5963	6054	6011
40°	5864	5946	5887
45°	5758	5798	5708
50°	5606	5606	5517
55°	5429	5358	5279
60°	5167	5063	4982
65°	4774	4681	4639
70°	4181	4214	4200
75°	3362	3722	3743
80°	2391	3156	3188
85°	1461	2646	2646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.1
10°-20°	183.3	3.1
20°-30°	277.6	4.7
30°-40°	332.8	5.7
40°-50°	339.4	5.8
50°-60°	296.3	5.1
60°-70°	212.1	3.6
70°-80°	109.2	1.9
80°-90°	29.1	0.5
90°-100°	246.4	4.2
100°-110°	857.4	14.6
110°-120°	830.6	14.2
120°-130°	651.5	11.1
130°-140°	515.7	8.8
140°-150°	398.0	6.8
150°-160°	285.3	4.9
160°-170°	174.5	3.0
170°-180°	59.0	1.0
0°-30°	524.8	9.0
0°-40°	857.6	14.6
0°-60°	1493.2	25.5
0°-90°	1843.7	31.5
90°-120°	1934.4	33.0
90°-150°	3499.5	59.7
90°-180°	4018.0	68.5
0°-180°	5862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	678	671	673	671	671	64
15°	652	646	652	652	651	184
25°	602	598	606	604	604	277
35°	529	528	538	534	534	331
45°	441	440	444	439	438	340
55°	338	333	333	328	328	301
65°	219	214	214	212	212	216
75°	94	99	104	105	105	102
85°	14	21	25	26	25	19
90°	9	14	14	9	5	6
95°	42	143	416	106	65	44
105°	143	203	901	1520	1414	151
115°	250	300	670	1414	1668	246
125°	337	416	624	1054	1257	302
135°	407	457	619	878	993	315
145°	476	508	614	758	822	298
155°	541	559	605	675	698	249
165°	592	596	610	638	642	167
175°	619	619	614	624	619	59
180°	619	619	619	619	619	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.9	674.9	674.9	674.9	674.9
2.5°	679.0	673.1	674.9	673.5	671.0
5°	677.6	670.7	673.1	671.2	670.6
7.5°	672.6	665.8	669.0	667.8	667.1
10°	668.1	661.4	665.0	663.8	663.1
12.5°	662.1	655.8	659.9	658.8	658.5
15°	651.9	646.4	651.9	651.9	651.3
17.5°	639.0	634.0	639.9	640.2	639.9
20°	630.1	624.5	631.9	631.2	631.9
22.5°	619.0	614.5	622.3	620.7	621.4
25°	601.9	597.6	606.2	604.3	604.3
27.5°	581.7	578.5	588.0	586.0	586.0
30°	568.1	565.0	574.9	572.5	572.5
32.5°	553.1	551.0	560.6	557.5	557.5
35°	529.4	528.1	537.5	533.7	533.7
37.5°	504.9	503.7	512.3	507.7	506.2
40°	486.9	486.3	493.7	488.8	488.8
42.5°	468.9	468.2	474.8	468.8	468.8
45°	441.3	439.9	444.4	438.7	437.5
47.5°	411.1	409.9	412.6	406.5	405.8
50°	390.6	389.4	390.6	384.9	384.4
52.5°	369.7	367.4	367.6	362.0	361.9
55°	337.5	333.2	333.1	328.2	328.2
57.5°	303.5	297.9	298.5	294.1	293.4
60°	280.0	273.9	274.4	270.7	270.0
62.5°	257.0	249.9	251.3	247.1	247.1
65°	218.7	213.8	214.4	212.5	212.5
67.5°	181.9	177.5	180.8	179.3	179.2
70°	155.0	151.9	156.2	156.2	155.7
72.5°	130.0	130.0	135.2	135.2	135.7
75°	94.3	98.7	104.4	105.0	105.0
77.5°	63.0	70.5	76.9	77.1	77.0
80°	45.0	53.5	59.4	60.6	60.0
82.5°	30.5	39.5	44.4	45.6	45.0
85°	13.8	21.1	25.0	25.6	25.0
87.5°	4.0	8.4	10.0	10.0	9.0
90°	9.2	13.9	13.9	9.2	4.7
92.5°	23.1	69.3	64.6	27.7	23.1
95°	41.6	143.3	415.8	106.2	64.6
97.5°	64.6	161.7	831.7	378.9	203.4
100°	87.8	171.0	970.3	910.2	586.8
102.5°	115.5	184.8	965.7	1279.9	1053.5
105°	143.3	203.4	901.0	1520.2	1413.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.8	272.7	702.3	1529.4	1742.0
115°	249.5	300.4	670.0	1413.9	1668.0
117.5°	277.2	332.7	651.5	1307.7	1561.8
120°	300.4	360.4	637.7	1206.0	1455.6
122.5°	318.8	388.1	628.4	1122.8	1349.2
125°	337.3	415.8	623.8	1053.5	1256.9
127.5°	355.8	434.3	623.8	1002.7	1173.7
130°	374.2	443.5	619.2	951.8	1104.3
132.5°	392.8	448.2	619.2	914.9	1044.3
135°	406.6	457.4	619.2	878.0	993.4
137.5°	425.1	466.7	619.2	845.6	951.8
140°	439.0	480.6	619.2	813.2	905.7
142.5°	457.4	494.4	619.2	780.9	864.1
145°	475.9	508.3	614.5	757.8	822.5
147.5°	494.4	522.1	610.0	734.7	785.5
150°	508.3	536.0	610.0	711.5	753.1
152.5°	526.8	549.9	605.3	688.5	725.4
155°	540.7	559.1	605.3	674.6	697.7
157.5°	554.5	572.9	605.3	660.8	679.3
160°	568.4	582.2	610.0	651.5	665.4
162.5°	582.2	591.5	610.0	642.2	651.5
165°	591.5	596.1	610.0	637.7	642.2
167.5°	600.7	605.3	610.0	633.0	633.0
170°	605.3	610.0	614.5	628.4	628.4
172.5°	614.5	614.5	614.5	623.8	623.8
175°	619.2	619.2	614.5	623.8	619.2
177.5°	619.2	619.2	614.5	623.8	619.2
180°	619.2	619.2	619.2	619.2	619.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	171.0	226.4	817.9	1626.4	1645.0
110°	194.0	249.5	753.1	1612.6	1746.6



(END OF REPORT)