

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: P845012

Luminaire Tested: **SQ4P-PC3-0U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-0U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

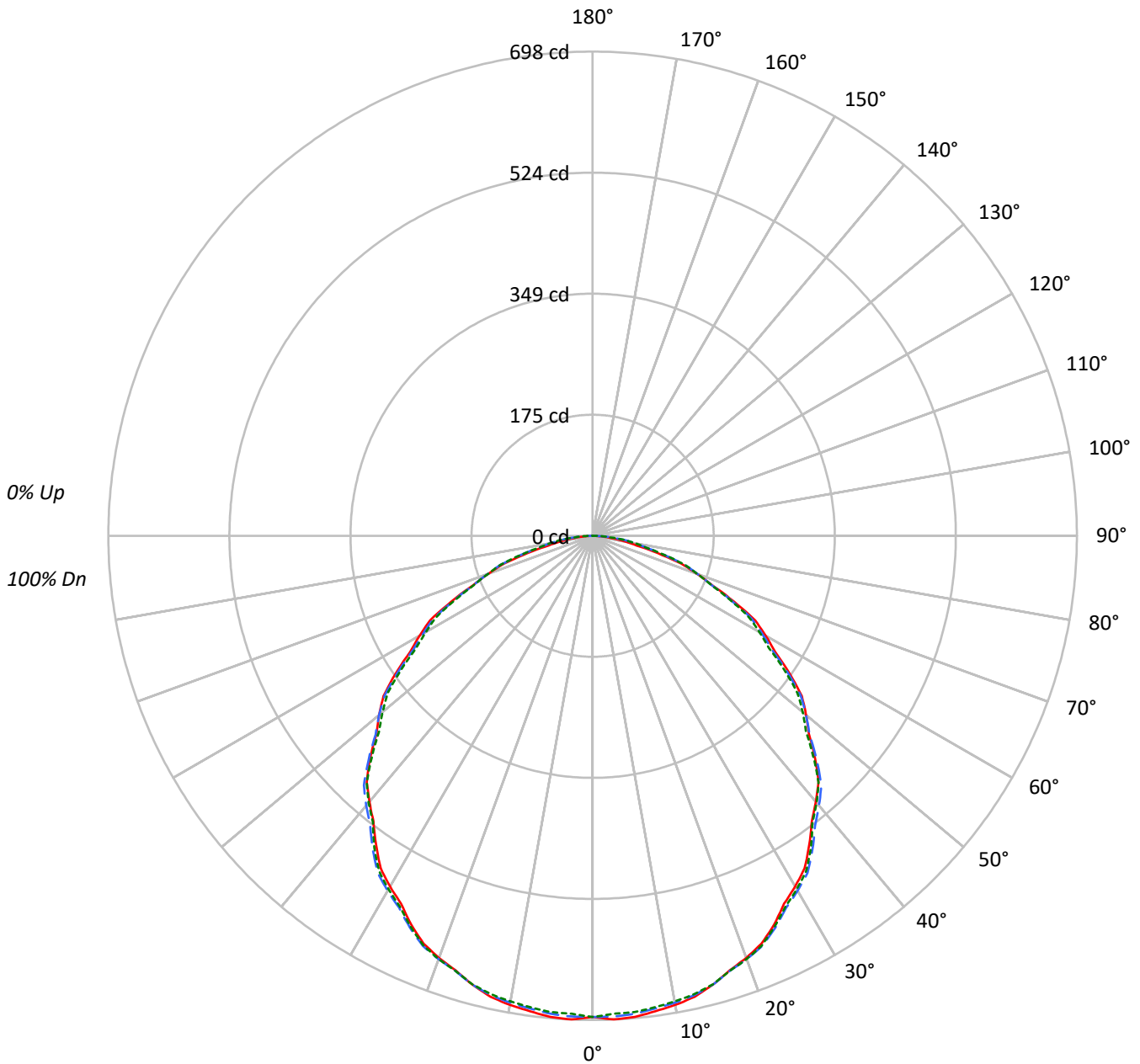
Lumens per Lamp: N/A
Luminaire Lumens: 1893.5 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.8
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85																			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6400	6400	6400
5°	6450	6407	6384
10°	6434	6403	6386
15°	6400	6400	6394
20°	6358	6377	6377
25°	6297	6344	6324
30°	6221	6296	6269
35°	6129	6223	6179
40°	6027	6112	6051
45°	5918	5960	5868
50°	5763	5763	5671
55°	5580	5508	5426
60°	5311	5204	5121
65°	4908	4812	4768
70°	4297	4332	4316
75°	3458	3825	3846
80°	2460	3246	3273
85°	1503	2721	2721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	3.5
10°-20°	188.4	10.0
20°-30°	285.4	15.1
30°-40°	342.1	18.1
40°-50°	348.8	18.4
50°-60°	304.5	16.1
60°-70°	218.0	11.5
70°-80°	112.3	5.9
80°-90°	28.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	539.4	28.5
0°-40°	881.5	46.6
0°-60°	1534.9	81.1
0°-90°	1893.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	694	694	694	694	694	
5°	696	689	692	690	689	66
15°	670	664	670	670	669	189
25°	619	614	623	621	621	285
35°	544	543	552	549	549	340
45°	454	452	457	451	450	349
55°	347	342	342	337	337	309
65°	225	220	220	218	218	222
75°	97	102	107	108	108	105
85°	14	22	26	26	26	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.7	693.7	693.7	693.7	693.7
2.5°	697.9	691.8	693.7	692.2	689.7
5°	696.4	689.4	691.8	689.9	689.3
7.5°	691.4	684.4	687.6	686.4	685.7
10°	686.8	679.8	683.5	682.3	681.6
12.5°	680.6	674.1	678.3	677.2	676.9
15°	670.0	664.4	670.0	670.0	669.4
17.5°	656.8	651.6	657.7	658.1	657.7
20°	647.6	641.9	649.5	648.8	649.5
22.5°	636.3	631.7	639.7	638.0	638.7
25°	618.6	614.2	623.2	621.2	621.2
27.5°	597.9	594.7	604.4	602.3	602.3
30°	583.9	580.8	591.0	588.4	588.4
32.5°	568.5	566.4	576.2	573.0	573.0
35°	544.2	542.8	552.5	548.6	548.6
37.5°	518.9	517.8	526.6	521.9	520.3
40°	500.4	499.9	507.5	502.4	502.4
42.5°	481.9	481.3	488.0	481.8	481.8
45°	453.6	452.2	456.8	450.9	449.7
47.5°	422.5	421.4	424.1	417.8	417.2
50°	401.5	400.2	401.5	395.6	395.1
52.5°	380.0	377.6	377.8	372.1	372.0
55°	346.9	342.5	342.4	337.3	337.3
57.5°	312.0	306.2	306.8	302.3	301.6
60°	287.8	281.5	282.0	278.2	277.5
62.5°	264.1	256.9	258.3	254.0	253.9
65°	224.8	219.8	220.4	218.4	218.4
67.5°	187.0	182.4	185.8	184.3	184.2
70°	159.3	156.2	160.6	160.6	160.0
72.5°	133.7	133.6	139.0	139.0	139.4
75°	97.0	101.5	107.3	107.9	107.9
77.5°	64.8	72.5	79.1	79.3	79.2
80°	46.3	55.0	61.1	62.3	61.6
82.5°	31.3	40.6	45.6	46.9	46.3
85°	14.2	21.7	25.7	26.3	25.7
87.5°	4.1	8.6	10.3	10.3	9.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







(END OF REPORT)