

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: P845181

Luminaire Tested: **SQ4P-PR1-0U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564154)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-0U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

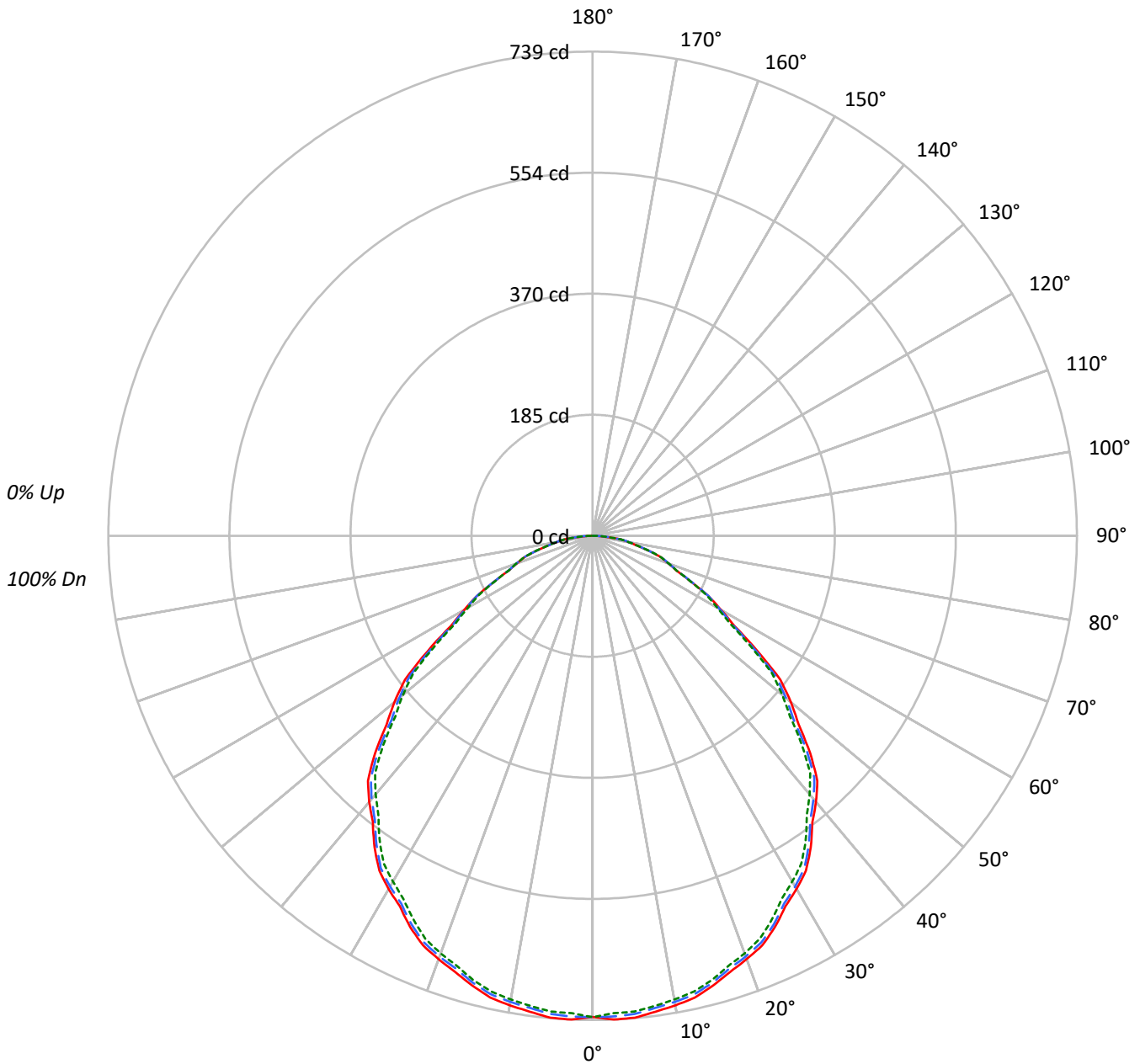
Lumens per Lamp: N/A
Luminaire Lumens: 1836.4 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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					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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85								
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72								
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62								
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54								
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47								
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41								
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37								
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33								
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30								
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6777	6777	6777
5°	6839	6786	6751
10°	6817	6769	6734
15°	6787	6744	6708
20°	6752	6709	6659
25°	6706	6661	6583
30°	6632	6586	6491
35°	6536	6477	6385
40°	6386	6317	6204
45°	6126	6019	5895
50°	5667	5530	5421
55°	4946	4835	4734
60°	4168	4133	4052
65°	3604	3620	3589
70°	3310	3329	3329
75°	3183	3183	3201
80°	2991	3029	2991
85°	2414	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	3.8
10°-20°	198.8	10.8
20°-30°	299.8	16.3
30°-40°	357.2	19.5
40°-50°	352.1	19.2
50°-60°	269.1	14.7
60°-70°	166.5	9.1
70°-80°	94.6	5.2
80°-90°	28.8	1.6
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°	568.0	30.9
0°-40°	925.2	50.4
0°-60°	1546.5	84.2
0°-90°	1836.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1836.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	738	730	733	730	729	70
15°	711	703	706	704	702	201
25°	659	650	654	647	647	303
35°	580	573	575	568	567	362
45°	470	463	461	453	452	360
55°	308	302	301	296	294	276
65°	165	164	166	164	164	167
75°	89	89	89	90	90	94
85°	23	24	25	25	25	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	734.5	734.5	734.5	734.5	734.5
2.5°	739.1	732.7	734.5	733.0	729.5
5°	738.4	730.3	732.7	730.1	728.9
7.5°	732.7	724.8	727.2	724.6	723.9
10°	727.6	720.2	722.5	720.0	718.8
12.5°	722.0	714.2	717.0	713.9	712.7
15°	710.6	703.2	706.1	703.5	702.3
17.5°	697.9	690.0	693.0	690.1	688.4
20°	687.7	680.4	683.3	678.9	678.2
22.5°	676.6	669.2	672.1	666.3	666.1
25°	658.7	650.5	654.3	647.3	646.7
27.5°	637.3	629.9	632.8	625.7	625.0
30°	622.5	615.2	618.2	610.5	609.3
32.5°	605.9	599.0	601.5	593.8	593.1
35°	580.3	573.4	575.1	567.6	566.9
37.5°	551.0	544.8	545.8	537.3	536.9
40°	530.2	524.1	524.5	515.6	515.1
42.5°	507.5	501.3	500.7	491.9	491.2
45°	469.5	463.3	461.3	452.9	451.8
47.5°	426.2	420.0	416.2	409.4	408.6
50°	394.8	388.6	385.3	379.6	377.7
52.5°	360.9	354.7	352.0	346.7	344.9
55°	307.5	302.5	300.6	295.5	294.3
57.5°	256.7	253.5	252.8	247.9	247.4
60°	225.9	224.0	224.0	219.6	219.6
62.5°	199.6	198.2	199.1	196.2	195.8
65°	165.1	164.0	165.8	164.4	164.4
67.5°	138.0	138.0	139.1	138.5	138.5
70°	122.7	122.7	123.4	123.4	123.4
72.5°	109.0	108.6	110.3	110.2	109.7
75°	89.3	89.3	89.3	89.8	89.8
77.5°	69.5	69.6	70.2	70.1	69.5
80°	56.3	57.0	57.0	56.3	56.3
82.5°	43.2	43.7	43.7	43.6	43.2
85°	22.8	24.0	25.3	25.3	25.3
87.5°	6.6	8.5	10.2	10.2	9.6
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)