

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: P845096

Luminaire Tested: **SQ4P-PP3-0U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-0U-050D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

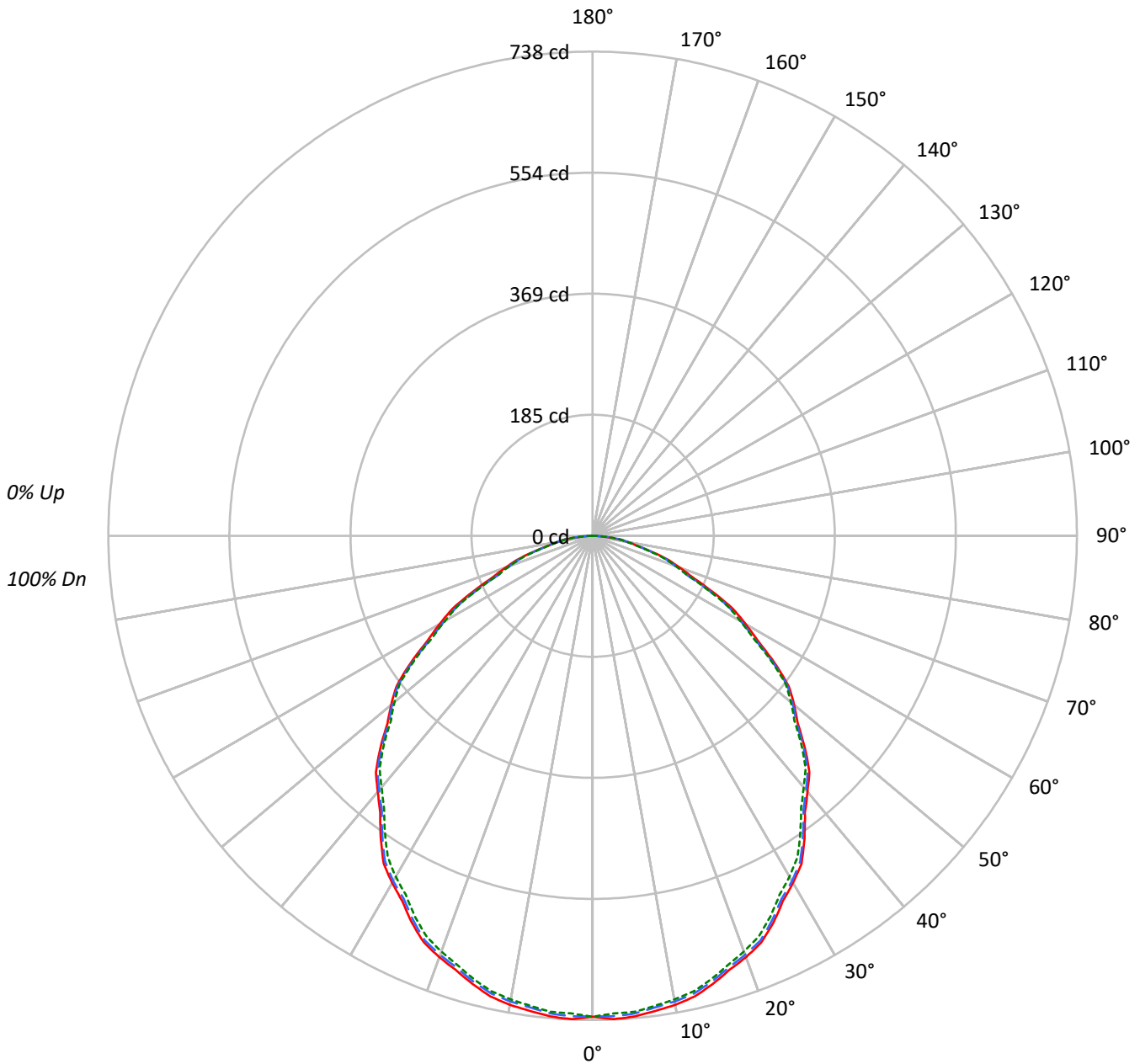
Lumens per Lamp: N/A
Luminaire Lumens: 1876.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72																			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61																			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53																			
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46																			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40																			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36																			
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32																			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29																			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6762	6762	6762
5°	6812	6770	6746
10°	6801	6753	6723
15°	6756	6719	6681
20°	6710	6673	6622
25°	6630	6585	6520
30°	6508	6474	6392
35°	6339	6295	6215
40°	6134	6095	6026
45°	5968	5926	5868
50°	5753	5717	5661
55°	5456	5384	5342
60°	4966	4825	4801
65°	4377	4194	4178
70°	3777	3623	3623
75°	3255	3205	3158
80°	2864	2901	2827
85°	2234	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	3.7
10°-20°	197.9	10.5
20°-30°	296.4	15.8
30°-40°	347.7	18.5
40°-50°	348.8	18.6
50°-60°	297.5	15.9
60°-70°	194.1	10.3
70°-80°	97.4	5.2
80°-90°	26.9	1.4
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°	563.6	30.0
0°-40°	911.3	48.6
0°-60°	1557.6	83.0
0°-90°	1876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	733	733	733	733	733	
5°	736	729	731	728	728	70
15°	707	700	703	701	700	200
25°	651	644	647	641	640	300
35°	563	557	559	552	552	352
45°	457	454	454	450	450	352
55°	339	338	335	333	332	301
65°	200	197	192	191	191	200
75°	91	91	90	89	89	99
85°	21	23	23	23	23	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	732.9	732.9	732.9	732.9	732.9
2.5°	737.5	731.6	732.9	731.9	728.8
5°	735.5	728.6	731.0	728.4	728.4
7.5°	730.5	723.0	725.3	722.8	722.7
10°	725.9	718.4	720.8	718.2	717.6
12.5°	719.2	711.7	714.5	711.5	711.4
15°	707.3	700.3	703.4	700.8	699.5
17.5°	693.8	686.3	689.9	686.4	685.8
20°	683.4	675.9	679.6	674.5	674.5
22.5°	671.2	663.7	667.9	661.1	661.1
25°	651.3	643.8	646.9	641.1	640.5
27.5°	627.8	620.4	623.6	617.0	616.9
30°	610.9	604.0	607.7	600.6	600.0
32.5°	592.4	586.0	588.7	581.6	580.9
35°	562.8	557.1	558.9	552.4	551.8
37.5°	531.5	525.8	527.7	522.2	522.0
40°	509.3	505.6	506.1	501.6	500.3
42.5°	488.9	484.6	485.1	480.6	480.4
45°	457.4	454.2	454.2	449.7	449.7
47.5°	424.0	421.6	420.9	417.1	417.0
50°	400.8	399.0	398.3	395.0	394.4
52.5°	376.7	375.8	373.6	370.9	370.8
55°	339.2	337.9	334.7	332.7	332.1
57.5°	298.5	295.9	292.3	289.6	289.9
60°	269.1	266.6	261.5	260.2	260.2
62.5°	240.9	237.9	232.7	230.9	231.9
65°	200.5	196.7	192.1	190.8	191.4
67.5°	163.7	160.3	155.3	155.3	154.8
70°	140.0	138.1	134.3	134.3	134.3
72.5°	119.0	118.0	115.3	115.2	114.8
75°	91.3	91.3	89.9	89.2	88.6
77.5°	68.3	68.6	68.0	67.3	66.2
80°	53.9	55.3	54.6	53.9	53.2
82.5°	40.6	41.9	41.8	40.6	40.4
85°	21.1	23.0	23.2	23.2	23.2
87.5°	5.7	7.6	8.2	8.2	8.7
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)