

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: P845349

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-0U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

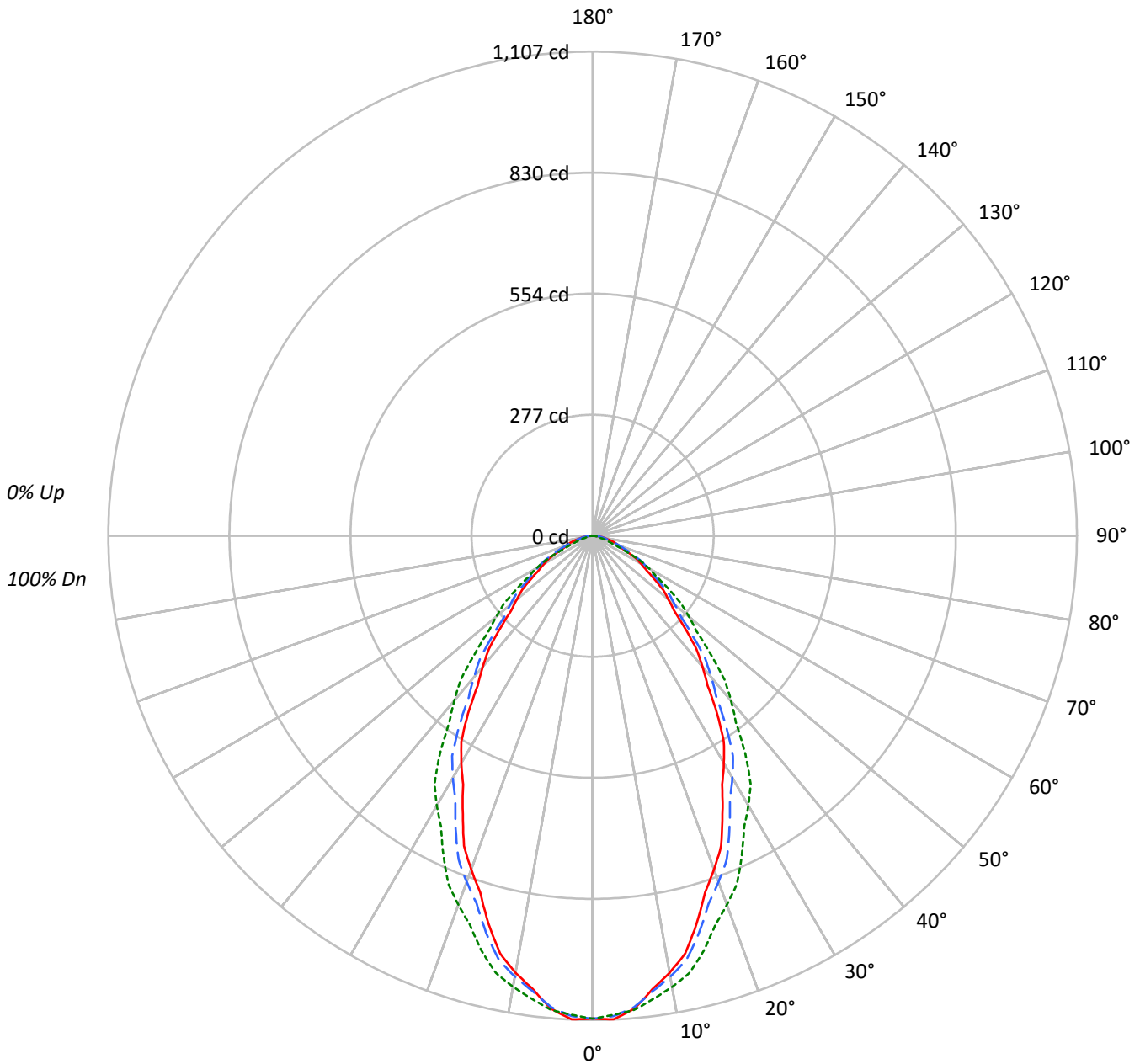
Lumens per Lamp: N/A
Luminaire Lumens: 1608.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78																			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69																			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62																			
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55																			
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50																			
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45																			
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10186	10186	10186
5°	10058	10023	10081
10°	9503	9589	9812
15°	8772	8977	9379
20°	7967	8265	8812
25°	7145	7535	8211
30°	6390	6807	7585
35°	5587	5990	6848
40°	4701	5075	5928
45°	3880	4216	4949
50°	3240	3531	4122
55°	2749	3030	3404
60°	2351	2629	2718
65°	1873	2209	1753
70°	1659	1726	1071
75°	1536	1397	656
80°	1413	1286	569
85°	1270	1175	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	6.3
10°-20°	263.4	16.4
20°-30°	341.1	21.2
30°-40°	334.1	20.8
40°-50°	255.7	15.9
50°-60°	170.4	10.6
60°-70°	93.0	5.8
70°-80°	38.7	2.4
80°-90°	11.0	0.7
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°	705.8	43.9
0°-40°	1039.8	64.6
0°-60°	1465.9	91.1
0°-90°	1608.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1608.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1086	1075	1082	1085	1088	101
15°	918	915	940	965	982	256
25°	702	704	740	772	807	323
35°	496	498	532	568	608	308
45°	297	303	323	348	379	232
55°	171	178	188	196	212	155
65°	86	93	101	88	80	89
75°	43	43	39	27	18	46
85°	12	12	11	7	4	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	1104.0
2.5°	1106.7	1096.8	1099.3	1099.2	1096.1
5°	1086.0	1075.1	1082.2	1084.7	1088.5
7.5°	1045.7	1037.5	1050.3	1059.8	1067.4
10°	1014.3	1007.2	1023.5	1037.4	1047.3
12.5°	978.0	971.9	992.2	1010.6	1023.6
15°	918.4	915.1	939.8	965.3	981.9
17.5°	854.8	853.2	881.5	911.3	932.4
20°	811.4	810.9	841.8	873.0	897.5
22.5°	767.6	768.6	801.1	833.5	861.6
25°	701.9	703.8	740.2	772.4	806.6
27.5°	641.1	642.0	679.5	713.6	750.1
30°	599.8	602.0	638.9	674.2	712.0
32.5°	558.3	561.0	597.1	633.5	672.1
35°	496.0	498.4	531.8	567.7	608.0
37.5°	431.8	435.1	464.9	498.6	538.3
40°	390.3	395.2	421.4	453.3	492.2
42.5°	350.5	356.4	380.7	411.0	446.0
45°	297.4	303.1	323.1	347.5	379.3
47.5°	251.7	258.3	273.6	294.7	321.7
50°	225.7	231.9	246.0	261.6	287.2
52.5°	202.8	209.0	221.6	233.6	255.5
55°	170.9	178.1	188.4	195.7	211.6
57.5°	144.9	151.7	159.9	163.1	172.8
60°	127.4	135.0	142.5	142.0	147.3
62.5°	111.5	118.0	125.3	120.2	120.6
65°	85.8	92.8	101.2	88.5	80.3
67.5°	69.3	70.7	79.4	61.7	52.1
70°	61.5	61.5	64.0	47.8	39.7
72.5°	54.2	54.2	51.9	38.9	30.3
75°	43.1	43.1	39.2	26.9	18.4
77.5°	33.2	32.9	30.0	20.1	13.4
80°	26.6	26.6	24.2	15.9	10.7
82.5°	20.8	20.8	18.8	12.4	7.8
85°	12.0	12.0	11.1	7.3	4.4
87.5°	4.3	4.3	3.9	2.3	1.9
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)