

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: P844931

Luminaire Tested: **SQ4P-F-0U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P520092)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-F-0U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

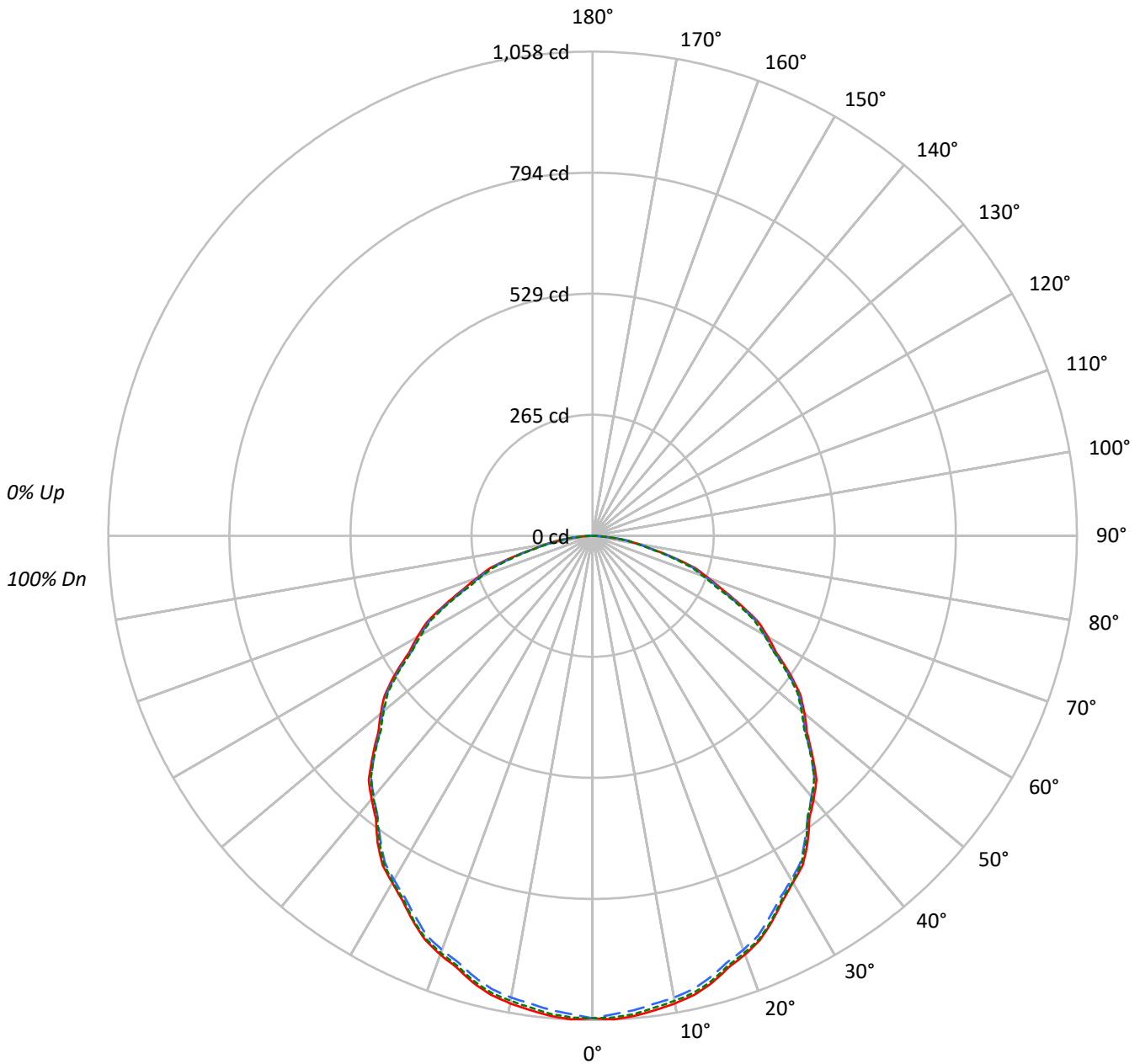
Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70																			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59																			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51																			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38																			
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9728	9728	9728
5°	9753	9636	9713
10°	9720	9601	9667
15°	9654	9532	9614
20°	9562	9452	9522
25°	9455	9340	9428
30°	9324	9248	9308
35°	9223	9112	9158
40°	9046	8959	8978
45°	8858	8786	8786
50°	8672	8592	8552
55°	8471	8356	8311
60°	8154	8023	7971
65°	7765	7612	7519
70°	7235	7081	6930
75°	6488	6288	6135
80°	5249	5186	5021
85°	3123	3599	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	3.5
10°-20°	283.3	9.8
20°-30°	425.6	14.8
30°-40°	508.0	17.7
40°-50°	520.5	18.1
50°-60°	464.2	16.1
60°-70°	345.7	12.0
70°-80°	187.7	6.5
80°-90°	43.4	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°	808.4	28.1
0°-40°	1316.4	45.7
0°-60°	2301.1	80.0
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1053	1052	1040	1050	1049	100
15°	1011	1008	998	1006	1006	285
25°	929	926	918	923	926	428
35°	819	816	809	809	813	511
45°	679	680	673	672	673	524
55°	527	527	520	515	517	469
65°	356	354	349	344	344	352
75°	182	180	176	174	172	192
85°	30	32	34	35	35	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.4	1054.4	1054.4	1054.4	1054.4
2.5°	1057.7	1055.6	1046.6	1054.4	1053.4
5°	1053.1	1051.7	1040.4	1050.2	1048.8
7.5°	1045.4	1042.8	1031.5	1041.3	1039.8
10°	1037.5	1034.6	1024.8	1033.2	1031.9
12.5°	1027.4	1025.7	1014.8	1023.2	1022.8
15°	1010.7	1007.8	997.9	1006.5	1006.5
17.5°	988.7	987.1	977.3	985.4	984.6
20°	973.9	971.2	962.7	969.8	969.8
22.5°	956.0	954.3	945.9	951.7	952.8
25°	928.8	926.1	917.5	923.3	926.1
27.5°	898.9	896.8	889.7	893.3	895.3
30°	875.2	875.2	868.1	869.6	873.7
32.5°	853.8	853.8	845.6	847.0	849.0
35°	818.9	816.0	809.0	809.0	813.1
37.5°	778.0	776.7	772.2	771.4	772.6
40°	751.1	749.7	743.9	745.4	745.4
42.5°	723.9	722.5	716.7	714.8	717.0
45°	678.9	680.4	673.4	671.9	673.4
47.5°	634.8	634.8	629.0	625.1	627.3
50°	604.2	604.2	598.6	595.8	595.8
52.5°	572.6	573.6	566.8	563.0	564.1
55°	526.6	526.6	519.5	515.3	516.7
57.5°	475.7	475.7	468.7	464.4	466.9
60°	441.9	441.9	434.8	430.5	432.0
62.5°	408.0	408.0	401.0	396.7	396.9
65°	355.7	354.4	348.7	344.4	344.4
67.5°	305.4	301.8	297.6	291.9	291.9
70°	268.2	266.8	262.5	256.9	256.9
72.5°	234.3	231.8	227.5	223.1	223.1
75°	182.0	180.5	176.4	173.7	172.1
77.5°	130.4	129.4	129.0	125.1	126.2
80°	98.8	98.8	97.6	94.5	94.5
82.5°	70.6	71.6	69.2	68.5	67.4
85°	29.5	32.3	34.0	35.2	35.2
87.5°	5.8	8.9	7.9	9.1	9.1
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)