

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: P845185

Luminaire Tested: **SQ4P-PR1-0U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845185
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-075D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

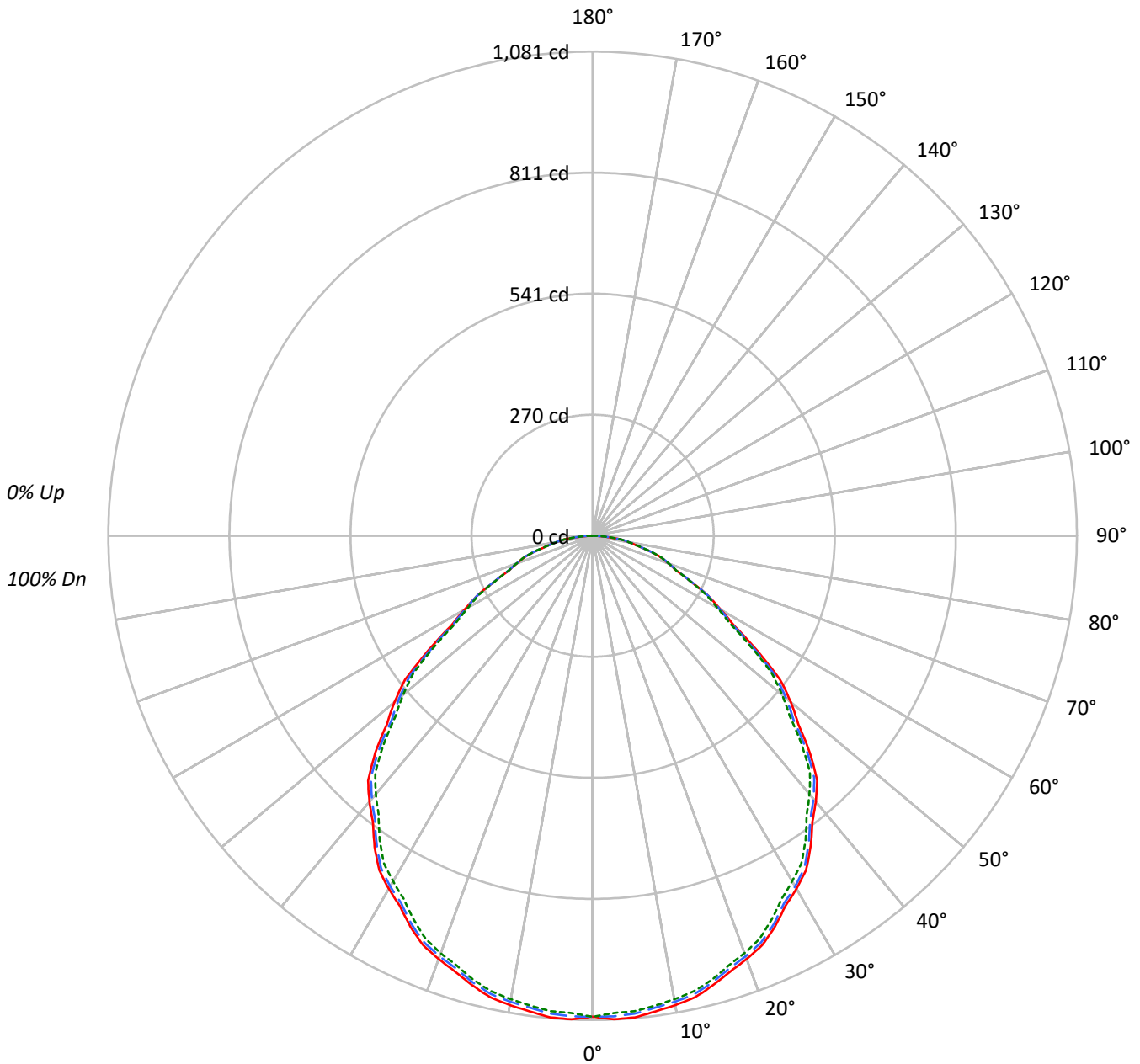
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2684.7 lumens
Efficiency: N/A
Efficacy: 104.9 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): 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				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°	9908	9908	9908
5°	9998	9921	9869
10°	9965	9897	9844
15°	9922	9860	9807
20°	9872	9809	9736
25°	9802	9737	9624
30°	9696	9629	9490
35°	9554	9470	9335
40°	9334	9235	9069
45°	8956	8798	8617
50°	8285	8085	7926
55°	7230	7070	6920
60°	6095	6043	5921
65°	5270	5292	5250
70°	4839	4864	4864
75°	4648	4648	4684
80°	4373	4421	4373
85°	3525	3917	3917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.8
10°-20°	290.6	10.8
20°-30°	438.3	16.3
30°-40°	522.2	19.5
40°-50°	514.8	19.2
50°-60°	393.5	14.7
60°-70°	243.5	9.1
70°-80°	138.3	5.2
80°-90°	42.1	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°	830.4	30.9
0°-40°	1352.6	50.4
0°-60°	2260.9	84.2
0°-90°	2684.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2684.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1080	1068	1071	1067	1066	102
15°	1039	1028	1032	1029	1027	293
25°	963	951	956	946	945	443
35°	848	838	841	830	829	529
45°	686	677	674	662	660	526
55°	450	442	440	432	430	403
65°	241	240	242	240	240	245
75°	130	130	130	131	131	138
85°	33	35	37	37	37	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.9	1073.9	1073.9	1073.9	1073.9
2.5°	1080.6	1071.2	1073.9	1071.7	1066.6
5°	1079.5	1067.7	1071.2	1067.3	1065.6
7.5°	1071.2	1059.5	1063.0	1059.2	1058.3
10°	1063.7	1052.8	1056.4	1052.7	1050.7
12.5°	1055.6	1044.1	1048.3	1043.8	1042.0
15°	1038.8	1028.0	1032.3	1028.7	1026.7
17.5°	1020.3	1008.7	1013.1	1008.9	1006.5
20°	1005.5	994.7	999.0	992.6	991.6
22.5°	989.2	978.4	982.7	974.1	973.9
25°	962.9	951.2	956.5	946.3	945.4
27.5°	931.7	920.8	925.2	914.8	913.8
30°	910.1	899.3	903.8	892.6	890.8
32.5°	885.8	875.7	879.4	868.2	867.1
35°	848.3	838.3	840.8	829.8	828.8
37.5°	805.5	796.5	797.9	785.6	784.8
40°	775.0	766.2	766.8	753.9	753.0
42.5°	741.9	732.9	732.0	719.2	718.2
45°	686.4	677.4	674.3	662.2	660.4
47.5°	623.1	614.1	608.4	598.5	597.3
50°	577.2	568.2	563.3	554.9	552.2
52.5°	527.6	518.6	514.6	506.9	504.2
55°	449.5	442.3	439.5	431.9	430.2
57.5°	375.4	370.5	369.6	362.4	361.7
60°	330.3	327.5	327.5	320.9	320.9
62.5°	291.8	289.7	291.1	286.8	286.2
65°	241.4	239.6	242.4	240.5	240.5
67.5°	201.7	201.7	203.3	202.5	202.5
70°	179.4	179.4	180.3	180.3	180.3
72.5°	159.5	158.8	161.2	161.1	160.4
75°	130.4	130.4	130.4	131.4	131.4
77.5°	101.6	101.8	102.5	102.3	101.6
80°	82.3	83.2	83.2	82.3	82.3
82.5°	63.1	64.0	64.0	63.8	63.1
85°	33.3	35.0	37.0	37.0	37.0
87.5°	9.5	12.5	14.9	14.9	14.0
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)