

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: P845268

Luminaire Tested: **SQ4P-PW1-0U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564826)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PW1-0U-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

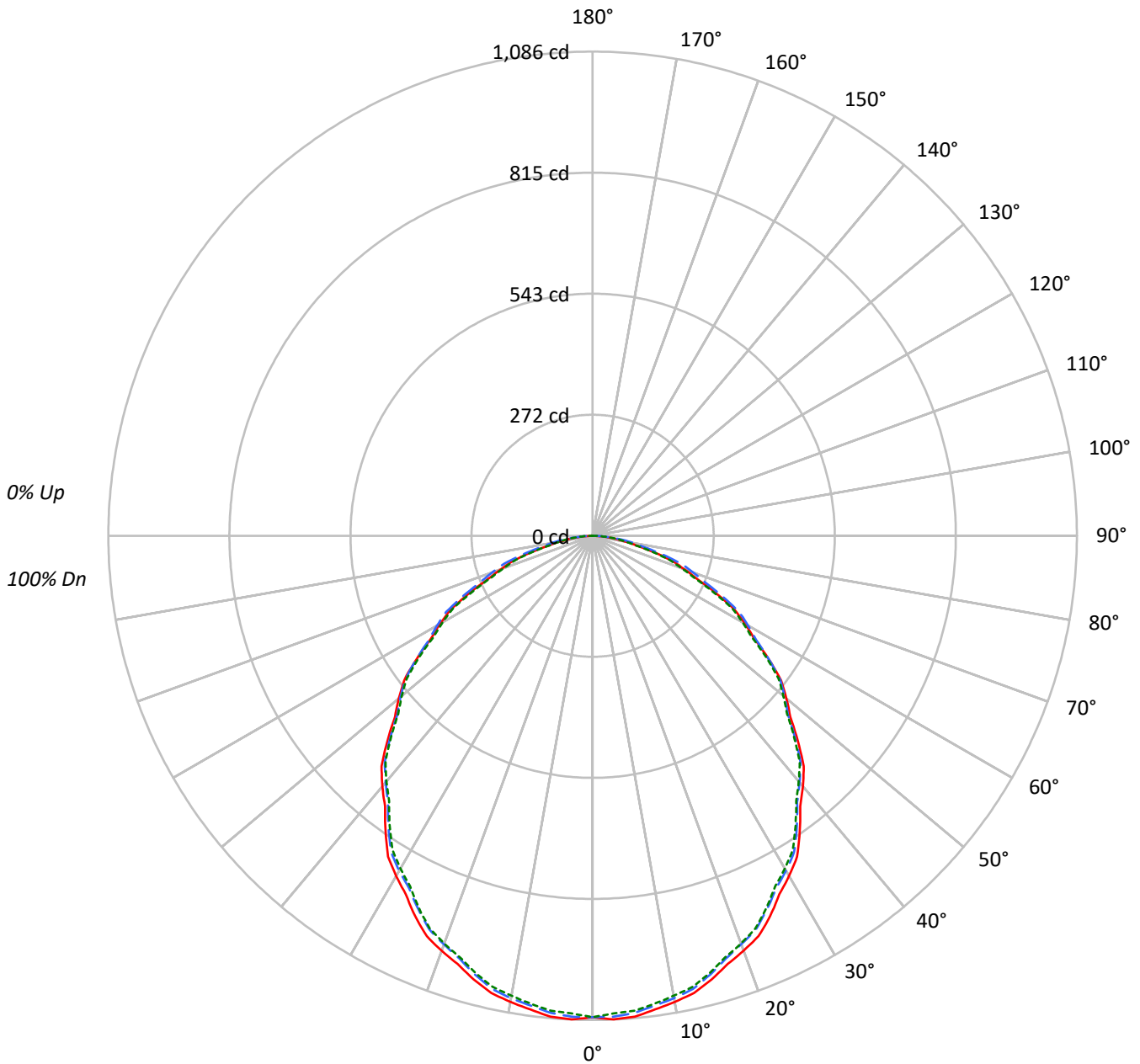
Lumens per Lamp: N/A
Luminaire Lumens: 2747.3 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31			
9	58	44	36	31	56	44	36	31	43	35	31	42	35	30	41	35	30	28			
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9962	9962	9962
5°	10026	9948	9904
10°	9947	9867	9814
15°	9842	9732	9696
20°	9724	9574	9556
25°	9588	9414	9384
30°	9386	9244	9183
35°	9120	8989	8936
40°	8835	8696	8662
45°	8490	8379	8340
50°	8140	8071	8015
55°	7758	7758	7636
60°	7287	7427	7163
65°	6667	6999	6501
70°	5873	6442	5724
75°	5023	5764	4880
80°	3895	4856	3948
85°	2509	3737	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.7
10°-20°	287.1	10.4
20°-30°	425.8	15.5
30°-40°	498.3	18.1
40°-50°	496.0	18.1
50°-60°	428.3	15.6
60°-70°	308.3	11.2
70°-80°	161.7	5.9
80°-90°	40.1	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°	814.6	29.7
0°-40°	1312.8	47.8
0°-60°	2237.2	81.4
0°-90°	2747.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1083	1070	1074	1071	1069	103
15°	1030	1017	1019	1017	1015	290
25°	942	926	925	919	922	433
35°	810	798	798	791	793	506
45°	651	645	642	640	639	502
55°	482	482	482	476	475	430
65°	305	315	321	308	298	303
75°	141	154	162	151	137	151
85°	24	31	35	33	31	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.7	1079.7	1079.7	1079.7	1079.7
2.5°	1085.9	1076.9	1079.7	1077.4	1072.2
5°	1082.6	1070.5	1074.1	1071.2	1069.4
7.5°	1071.7	1060.5	1063.0	1060.1	1058.9
10°	1061.7	1050.6	1053.2	1049.4	1047.5
12.5°	1050.4	1038.4	1041.1	1037.1	1036.1
15°	1030.4	1017.2	1018.9	1016.9	1015.1
17.5°	1007.1	994.0	994.2	991.2	990.7
20°	990.4	976.4	975.1	971.3	973.3
22.5°	972.2	957.4	956.1	950.8	953.5
25°	941.8	926.0	924.8	919.1	921.8
27.5°	906.8	891.3	891.3	883.3	886.2
30°	881.0	866.1	867.7	858.2	862.0
32.5°	853.6	840.2	841.0	831.6	835.3
35°	809.7	798.5	798.1	790.6	793.4
37.5°	764.7	754.9	753.3	749.0	749.6
40°	733.6	725.1	722.0	719.2	719.2
42.5°	700.7	693.2	690.1	687.9	687.3
45°	650.7	645.1	642.2	640.3	639.2
47.5°	601.2	596.1	593.5	592.2	591.2
50°	567.1	563.3	562.3	559.3	558.4
52.5°	532.8	530.6	529.5	525.9	524.9
55°	482.3	481.5	482.3	475.7	474.7
57.5°	429.8	431.3	434.4	425.4	423.1
60°	394.9	398.5	402.5	392.0	388.2
62.5°	358.9	365.0	370.5	358.4	353.0
65°	305.4	314.7	320.6	308.0	297.8
67.5°	253.7	265.1	272.2	258.7	247.1
70°	217.7	230.9	238.8	225.1	212.2
72.5°	186.6	201.2	207.6	194.7	181.7
75°	140.9	153.8	161.7	150.9	136.9
77.5°	99.9	112.2	118.7	109.4	97.8
80°	73.3	86.2	91.4	83.4	74.3
82.5°	51.9	62.8	66.3	61.5	55.1
85°	23.7	31.2	35.3	33.3	31.3
87.5°	6.1	11.3	14.4	14.4	15.2
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)