

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: P845183

Luminaire Tested: **SQ4P-PR1-0U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845183
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

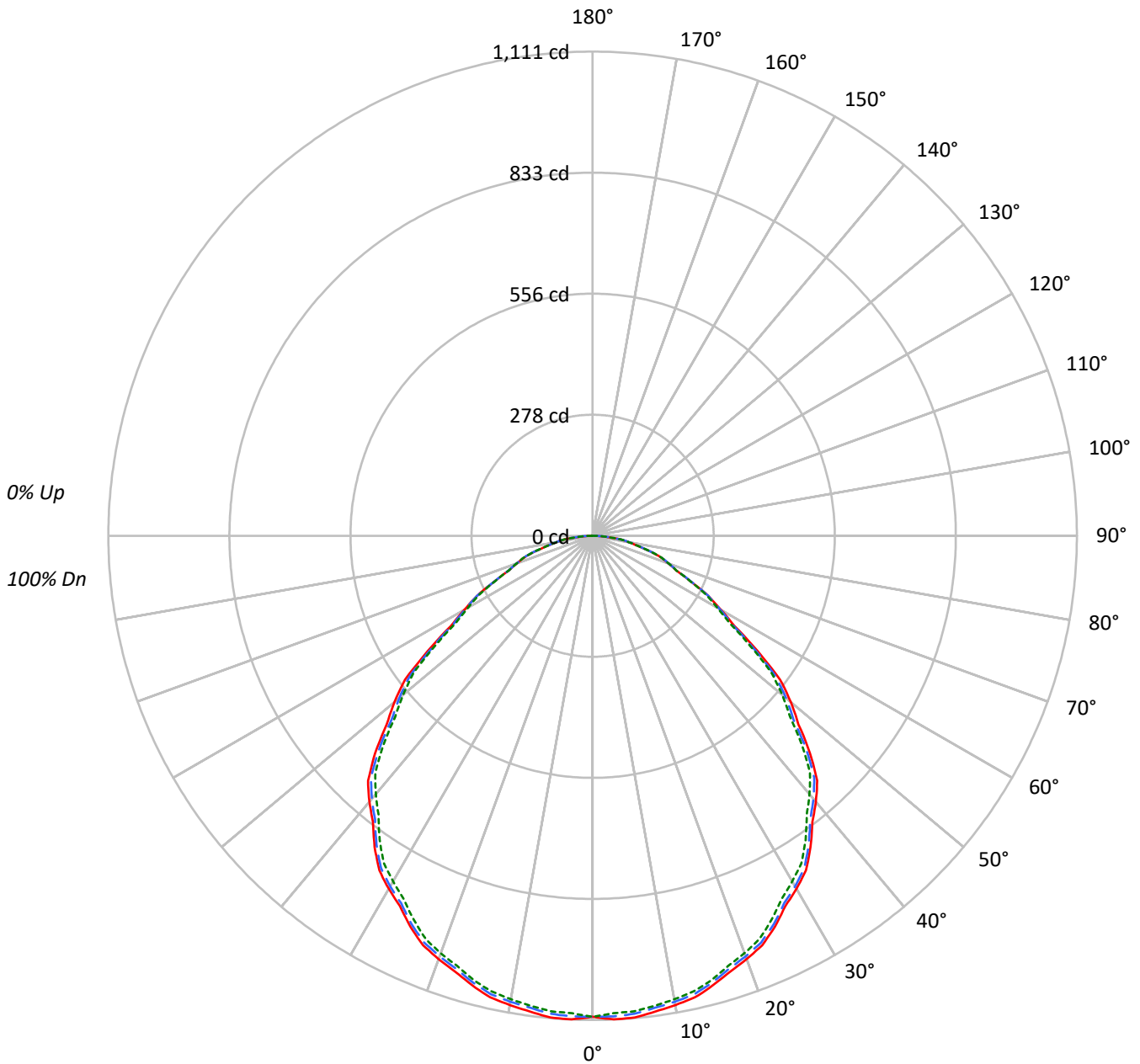
Lumens per Lamp: N/A
Luminaire Lumens: 2759.6 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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									
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	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°	10184	10184	10184
5°	10276	10198	10144
10°	10244	10172	10118
15°	10199	10135	10080
20°	10148	10081	10008
25°	10075	10009	9892
30°	9966	9897	9754
35°	9820	9735	9595
40°	9595	9492	9321
45°	9205	9043	8857
50°	8516	8311	8147
55°	7431	7266	7113
60°	6265	6211	6087
65°	5418	5438	5397
70°	4974	4999	4999
75°	4780	4780	4812
80°	4490	4543	4490
85°	3620	4033	4033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.8
10°-20°	298.7	10.8
20°-30°	450.5	16.3
30°-40°	536.8	19.5
40°-50°	529.2	19.2
50°-60°	404.4	14.7
60°-70°	250.2	9.1
70°-80°	142.1	5.2
80°-90°	43.2	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°	853.6	30.9
0°-40°	1390.3	50.4
0°-60°	2323.9	84.2
0°-90°	2759.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1110	1098	1101	1097	1095	105
15°	1068	1057	1061	1057	1055	301
25°	990	978	983	973	972	455
35°	872	862	864	853	852	544
45°	706	696	693	681	679	540
55°	462	455	452	444	442	414
65°	248	246	249	247	247	251
75°	134	134	134	135	135	142
85°	34	36	38	38	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.8	1103.8	1103.8	1103.8	1103.8
2.5°	1110.8	1101.1	1103.8	1101.6	1096.3
5°	1109.6	1097.5	1101.1	1097.1	1095.3
7.5°	1101.1	1089.0	1092.7	1088.8	1087.8
10°	1093.4	1082.2	1085.8	1082.0	1080.0
12.5°	1085.0	1073.2	1077.5	1072.9	1071.0
15°	1067.8	1056.7	1061.1	1057.3	1055.3
17.5°	1048.7	1036.8	1041.4	1037.0	1034.5
20°	1033.6	1022.4	1026.8	1020.3	1019.3
22.5°	1016.8	1005.7	1010.1	1001.3	1001.1
25°	989.7	977.7	983.2	972.7	971.7
27.5°	957.6	946.5	951.0	940.3	939.3
30°	935.5	924.4	929.0	917.5	915.6
32.5°	910.5	900.1	903.9	892.5	891.3
35°	871.9	861.6	864.3	852.9	851.9
37.5°	828.0	818.7	820.1	807.5	806.7
40°	796.7	787.5	788.1	774.9	773.9
42.5°	762.6	753.3	752.4	739.2	738.2
45°	705.5	696.2	693.1	680.7	678.8
47.5°	640.5	631.2	625.4	615.2	614.0
50°	593.3	584.0	579.0	570.4	567.6
52.5°	542.3	533.0	528.9	521.0	518.2
55°	462.0	454.6	451.7	444.0	442.2
57.5°	385.8	380.9	379.9	372.5	371.8
60°	339.5	336.6	336.6	329.9	329.9
62.5°	299.9	297.8	299.2	294.8	294.2
65°	248.2	246.3	249.1	247.2	247.2
67.5°	207.4	207.4	208.9	208.1	208.1
70°	184.4	184.4	185.3	185.3	185.3
72.5°	163.9	163.2	165.7	165.6	164.9
75°	134.1	134.1	134.1	135.0	135.0
77.5°	104.4	104.6	105.4	105.2	104.4
80°	84.5	85.5	85.5	84.5	84.5
82.5°	64.9	65.8	65.8	65.6	64.9
85°	34.2	36.0	38.1	38.1	38.1
87.5°	9.8	12.8	15.3	15.3	14.4
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)