

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: P845147

Luminaire Tested: **SQ4P-PR1-025U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845147
REPORT IS A COMBINATION OF REPORTS P700176 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-025U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

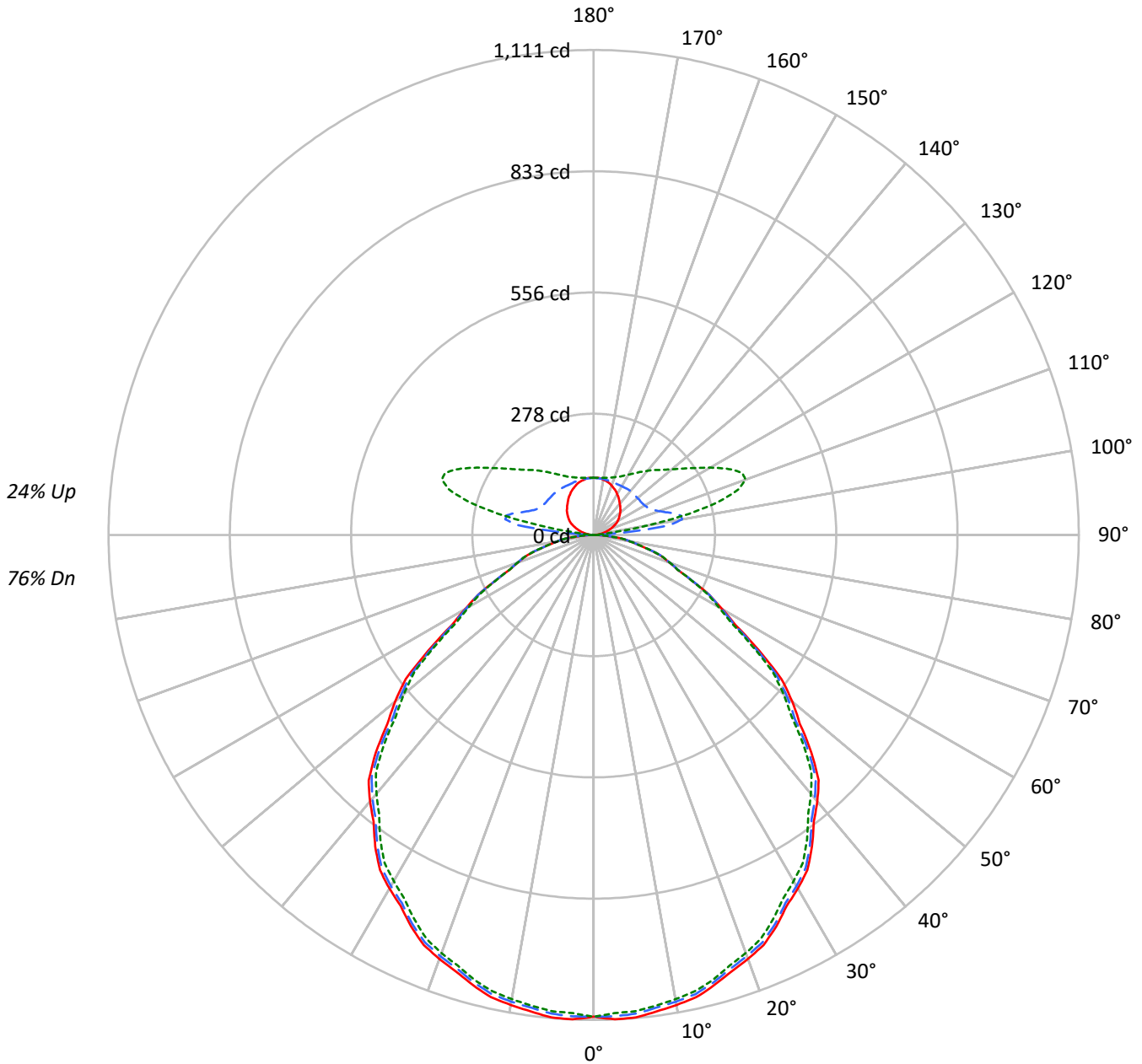
Lumens per Lamp: N/A
Luminaire Lumens: 3610.9 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.6
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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	80	80	80	76																
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	69	69	69	65																
2	95	88	82	76	91	84	78	74	77	72	68	70	66	63	64	61	59	59	59	59	55																
3	87	78	70	64	83	74	68	62	68	63	58	62	58	54	57	53	50	50	50	50	47																
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	44	44	44	41																
5	74	62	53	47	70	59	52	46	55	48	43	50	45	41	46	42	38	38	38	38	36																
6	68	56	47	41	65	54	46	40	49	43	38	46	40	36	42	37	34	34	34	34	32																
7	63	51	42	37	60	49	41	36	45	39	34	42	36	32	38	34	30	30	30	30	28																
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27	27	27	27	25																
9	55	42	35	29	52	41	34	29	38	32	27	35	30	26	33	28	25	25	25	25	23																
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	22	22	22	21																

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	2.9
10°-20°	298.7	8.3
20°-30°	450.5	12.5
30°-40°	536.8	14.9
40°-50°	529.2	14.7
50°-60°	404.4	11.2
60°-70°	250.2	6.9
70°-80°	142.1	3.9
80°-90°	43.6	1.2
90°-100°	52.2	1.4
100°-110°	181.6	5.0
110°-120°	175.9	4.9
120°-130°	138.0	3.8
130°-140°	109.2	3.0
140°-150°	84.3	2.3
150°-160°	60.4	1.7
160°-170°	37.0	1.0
170°-180°	12.5	0.3
0°-30°	853.6	23.6
0°-40°	1390.3	38.5
0°-60°	2323.9	64.4
0°-90°	2759.9	76.4
90°-120°	409.7	11.3
90°-150°	741.2	20.5
90°-180°	851.0	23.6
0°-180°	3610.9	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	40
90°	2	3	3	2	1	3
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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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°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)