

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: P845195

Luminaire Tested: **SQ4P-PR1-100U-075D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845195
REPORT IS A COMBINATION OF REPORTS P700092 AND P700246
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-100U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1000 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

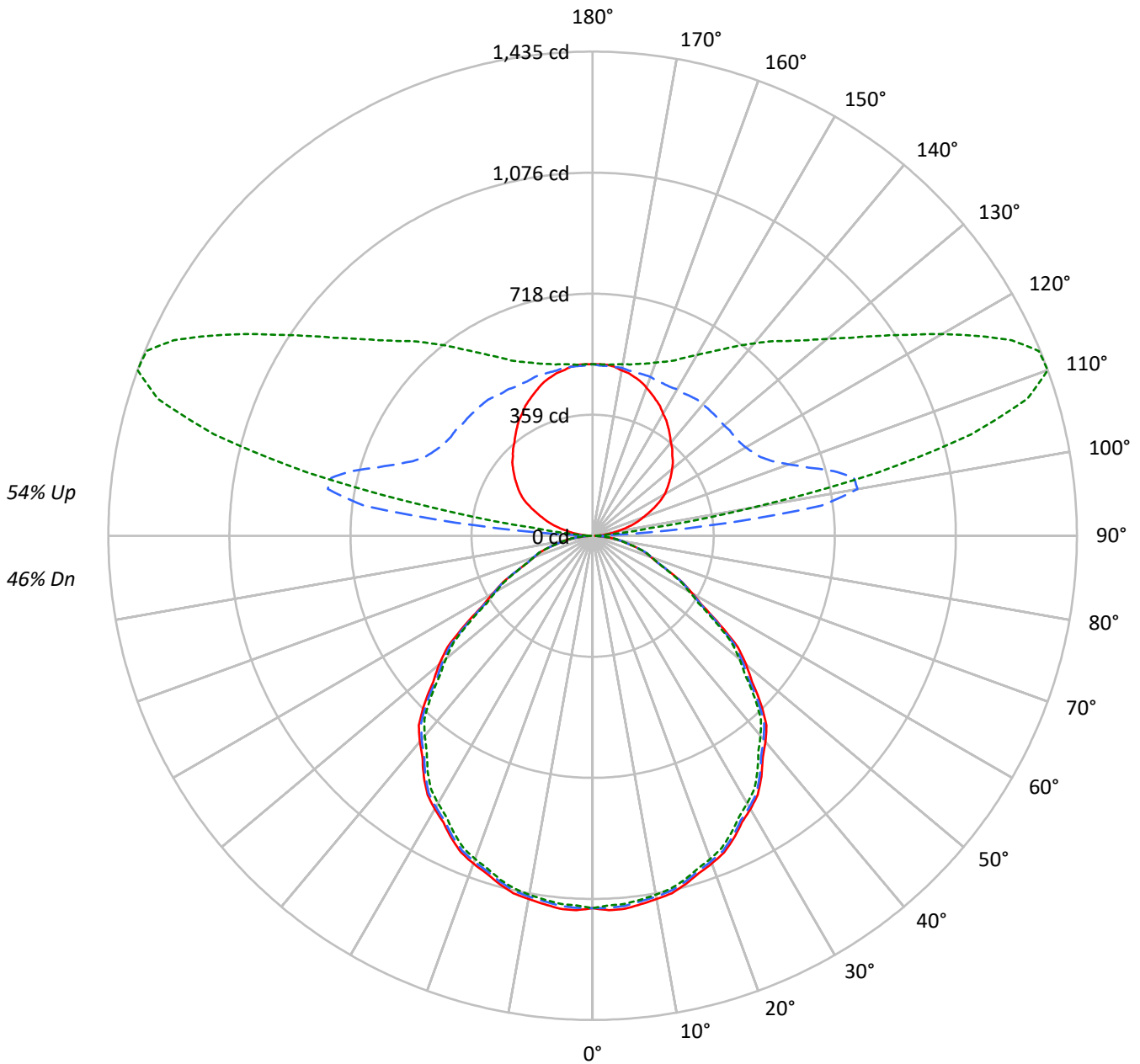
Lumens per Lamp: N/A
Luminaire Lumens: 6061.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.6
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46																			
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39																			
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	41	39	38	33																			
3	81	72	65	59	74	66	60	55	56	51	47	46	42	40	37	34	32	28																			
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28	24																			
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25	21																			
6	63	51	43	37	57	47	40	35	40	35	30	33	29	26	27	24	22	19																			
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17																			
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15																			
9	50	38	31	26	46	35	29	24	30	25	21	25	21	19	21	18	16	14																			
10	47	35	28	23	43	32	26	22	28	23	19	24	20	17	19	16	14	12																			

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	1.7
10°-20°	298.7	4.9
20°-30°	450.5	7.4
30°-40°	536.8	8.9
40°-50°	529.2	8.7
50°-60°	404.4	6.7
60°-70°	250.2	4.1
70°-80°	142.1	2.3
80°-90°	44.5	0.7
90°-100°	202.4	3.3
100°-110°	704.3	11.6
110°-120°	682.2	11.3
120°-130°	535.2	8.8
130°-140°	423.6	7.0
140°-150°	326.9	5.4
150°-160°	234.3	3.9
160°-170°	143.3	2.4
170°-180°	48.5	0.8
0°-30°	853.6	14.1
0°-40°	1390.3	22.9
0°-60°	2323.9	38.3
0°-90°	2760.8	45.5
90°-120°	1588.9	26.2
90°-150°	2874.6	47.4
90°-180°	3301.0	54.5
0°-180°	6061.6	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	40
90°	8	11	11	8	4	6
95°	34	118	342	87	53	36
105°	118	167	740	1249	1162	124
115°	205	247	550	1162	1370	202
125°	277	342	512	865	1032	248
135°	334	376	509	721	816	259
145°	391	418	505	622	676	245
155°	444	459	497	554	573	205
165°	486	490	501	524	528	137
175°	509	509	505	512	509	48
180°	509	509	509	509	509	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.8	1103.8	1103.8	1103.8	<i>1103.8</i>
2.5°	1110.8	1101.1	1103.8	1101.6	<i>1096.3</i>
5°	1109.6	1097.5	1101.1	1097.1	<i>1095.3</i>
7.5°	1101.1	1089.0	1092.7	1088.8	<i>1087.8</i>
10°	1093.4	1082.2	1085.8	1082.0	<i>1080.0</i>
12.5°	1085.0	1073.2	1077.5	1072.9	<i>1071.0</i>
15°	1067.8	1056.7	1061.1	1057.3	<i>1055.3</i>
17.5°	1048.7	1036.8	1041.4	1037.0	<i>1034.5</i>
20°	1033.6	1022.4	1026.8	1020.3	<i>1019.3</i>
22.5°	1016.8	1005.7	1010.1	1001.3	<i>1001.1</i>
25°	989.7	977.7	983.2	972.7	<i>971.7</i>
27.5°	957.6	946.5	951.0	940.3	<i>939.3</i>
30°	935.5	924.4	929.0	917.5	<i>915.6</i>
32.5°	910.5	900.1	903.9	892.5	<i>891.3</i>
35°	871.9	861.6	864.3	852.9	<i>851.9</i>
37.5°	828.0	818.7	820.1	807.5	<i>806.7</i>
40°	796.7	787.5	788.1	774.9	<i>773.9</i>
42.5°	762.6	753.3	752.4	739.2	<i>738.2</i>
45°	705.5	696.2	693.1	680.7	<i>678.8</i>
47.5°	640.5	631.2	625.4	615.2	<i>614.0</i>
50°	593.3	584.0	579.0	570.4	<i>567.6</i>
52.5°	542.3	533.0	528.9	521.0	<i>518.2</i>
55°	462.0	454.6	451.7	444.0	<i>442.2</i>
57.5°	385.8	380.9	379.9	372.5	<i>371.8</i>
60°	339.5	336.6	336.6	329.9	<i>329.9</i>
62.5°	299.9	297.8	299.2	294.8	<i>294.2</i>
65°	248.2	246.3	249.1	247.2	<i>247.2</i>
67.5°	207.4	207.4	208.9	208.1	<i>208.1</i>
70°	184.4	184.4	185.3	185.3	<i>185.3</i>
72.5°	163.9	163.2	165.7	165.6	<i>164.9</i>
75°	134.1	134.1	134.1	135.0	<i>135.0</i>
77.5°	104.4	104.6	105.4	105.2	<i>104.4</i>
80°	84.5	85.5	85.5	84.5	<i>84.5</i>
82.5°	64.9	65.8	65.8	65.6	<i>64.9</i>
85°	34.2	36.0	38.1	38.1	<i>38.1</i>
87.5°	9.8	12.8	15.3	15.3	<i>14.4</i>
90°	7.6	11.4	11.4	7.6	<i>3.8</i>
92.5°	19.0	57.0	53.1	22.8	<i>19.0</i>
95°	34.2	117.6	341.6	87.3	<i>53.1</i>
97.5°	53.1	132.9	683.2	311.3	<i>167.0</i>
100°	72.1	140.4	797.0	747.7	<i>482.0</i>
102.5°	94.9	151.8	793.2	1051.4	<i>865.3</i>
105°	117.6	167.0	740.1	1248.7	<i>1161.5</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.2	223.9	577.0	1256.3	1431.0
115°	204.9	246.7	550.3	1161.5	1370.2
117.5°	227.7	273.3	535.2	1074.2	1282.9
120°	246.7	296.0	523.8	990.6	1195.6
122.5°	261.9	318.8	516.2	922.3	1108.3
125°	277.0	341.6	512.4	865.3	1032.4
127.5°	292.3	356.8	512.4	823.7	964.1
130°	307.5	364.4	508.6	781.9	907.1
132.5°	322.6	368.1	508.6	751.5	857.8
135°	334.0	375.8	508.6	721.2	816.0
137.5°	349.2	383.3	508.6	694.6	781.9
140°	360.6	394.8	508.6	668.0	743.9
142.5°	375.8	406.1	508.6	641.5	709.8
145°	390.9	417.6	504.8	622.5	675.6
147.5°	406.1	428.9	501.0	603.5	645.3
150°	417.6	440.3	501.0	584.5	618.6
152.5°	432.7	451.7	497.2	565.5	595.9
155°	444.1	459.2	497.2	554.2	573.1
157.5°	455.4	470.7	497.2	542.8	558.0
160°	466.9	478.2	501.0	535.2	546.5
162.5°	478.2	485.9	501.0	527.5	535.2
165°	485.9	489.7	501.0	523.8	527.5
167.5°	493.4	497.2	501.0	520.0	520.0
170°	497.2	501.0	504.8	516.2	516.2
172.5°	504.8	504.8	504.8	512.4	512.4
175°	508.6	508.6	504.8	512.4	508.6
177.5°	508.6	508.6	504.8	512.4	508.6
180°	508.6	508.6	508.6	508.6	508.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	140.4	186.0	671.8	1336.0	1351.2
110°	159.4	204.9	618.6	1324.7	1434.7



(END OF REPORT)