

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: P845171

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845171
REPORT IS A COMBINATION OF REPORTS P700232 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-075U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

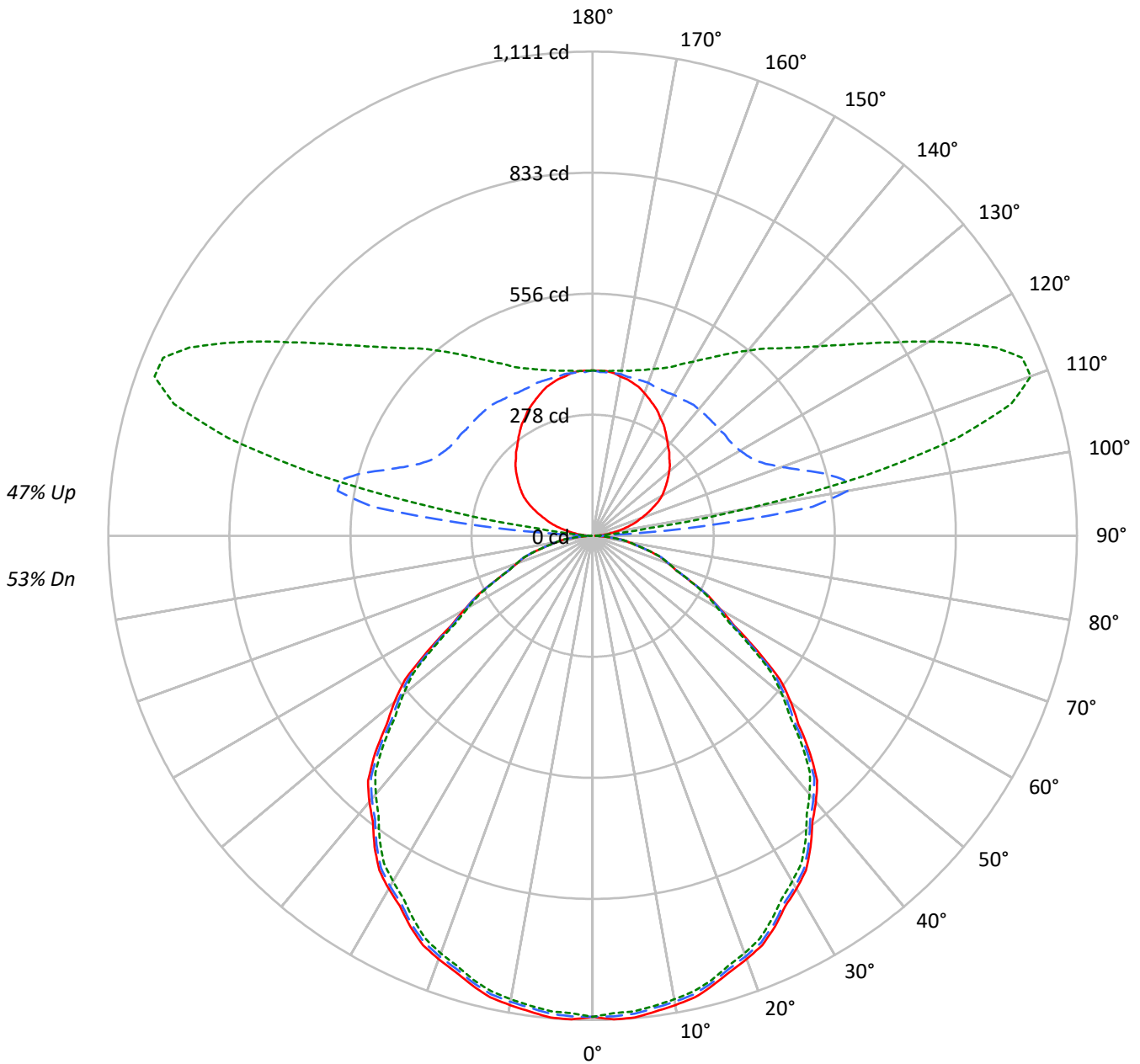
Lumens per Lamp: N/A
Luminaire Lumens: 5220.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.6
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53								
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50	45								
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	46	45	43	38								
3	82	73	66	60	76	68	62	57	58	54	50	50	46	43	41	39	37	33								
4	76	65	57	51	70	60	54	48	52	47	43	44	40	37	37	34	32	28								
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	34	30	28	25								
6	64	52	44	38	59	49	41	36	42	37	32	36	32	28	31	27	25	22								
7	59	47	39	34	55	44	37	32	38	33	29	33	29	25	28	25	22	19								
8	55	43	35	30	51	40	33	28	35	29	25	30	26	23	26	22	20	17								
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18	16								
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16	14								

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	2.0
10°-20°	298.7	5.7
20°-30°	450.5	8.6
30°-40°	536.8	10.3
40°-50°	529.2	10.1
50°-60°	404.4	7.7
60°-70°	250.2	4.8
70°-80°	142.1	2.7
80°-90°	44.2	0.8
90°-100°	150.9	2.9
100°-110°	525.0	10.1
110°-120°	508.6	9.7
120°-130°	398.9	7.6
130°-140°	315.7	6.0
140°-150°	243.7	4.7
150°-160°	174.7	3.3
160°-170°	106.8	2.0
170°-180°	36.1	0.7
0°-30°	853.6	16.3
0°-40°	1390.3	26.6
0°-60°	2323.9	44.5
0°-90°	2760.5	52.9
90°-120°	1184.4	22.7
90°-150°	2142.8	41.0
90°-180°	2460.0	47.1
0°-180°	5220.9	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°	6	8	8	6	3	5
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



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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°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)