

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: P845051

Luminaire Tested: **SQ4P-PC3-150U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845051
REPORT IS A COMBINATION OF REPORTS P700140 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-150U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

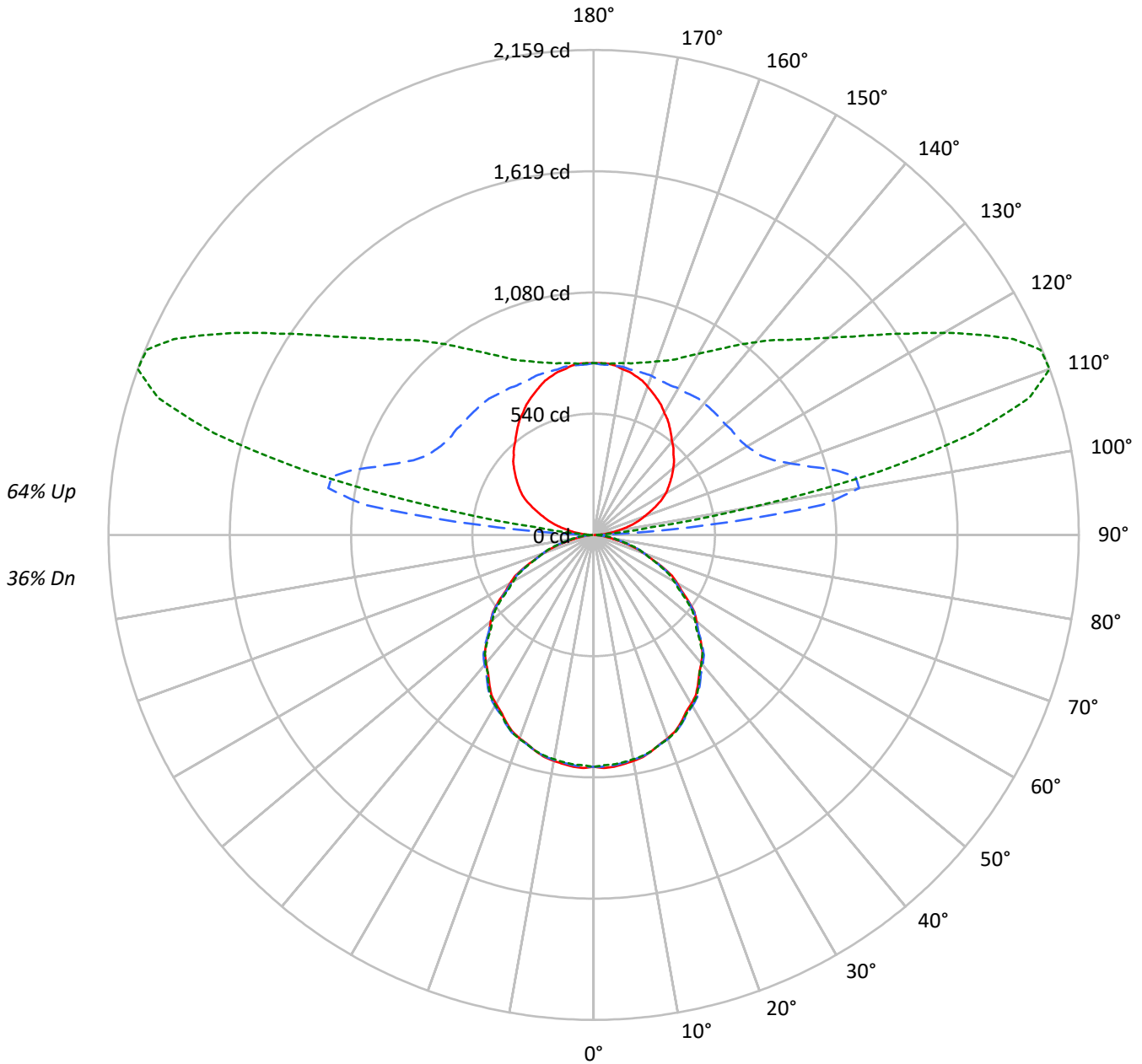
Lumens per Lamp: N/A
Luminaire Lumens: 7786.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68.6
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36																			
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31																			
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	34	32	31	26																			
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22																			
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	24	23	19																			
5	66	54	47	41	59	50	43	38	41	35	31	32	28	25	24	22	20	16																			
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	22	19	17	14																			
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15	12																			
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11																			
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10																			
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9523	9523	9523
5°	9597	9534	9499
10°	9573	9528	9501
15°	9523	9523	9513
20°	9460	9487	9487
25°	9371	9438	9409
30°	9256	9368	9327
35°	9119	9258	9193
40°	8967	9094	9003
45°	8805	8867	8729
50°	8575	8575	8437
55°	8303	8194	8072
60°	7901	7743	7619
65°	7302	7156	7093
70°	6396	6444	6423
75°	5144	5689	5729
80°	3661	4824	4877
85°	2234	4054	4054



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.3
10°-20°	280.4	3.6
20°-30°	424.6	5.5
30°-40°	509.0	6.5
40°-50°	519.0	6.7
50°-60°	453.0	5.8
60°-70°	324.3	4.2
70°-80°	167.1	2.1
80°-90°	44.1	0.6
90°-100°	304.6	3.9
100°-110°	1059.8	13.6
110°-120°	1026.6	13.2
120°-130°	805.3	10.3
130°-140°	637.4	8.2
140°-150°	491.9	6.3
150°-160°	352.6	4.5
160°-170°	215.7	2.8
170°-180°	73.0	0.9
0°-30°	802.6	10.3
0°-40°	1311.6	16.8
0°-60°	2283.6	29.3
0°-90°	2819.1	36.2
90°-120°	2391.0	30.7
90°-150°	4325.6	55.6
90°-180°	4967.0	63.8
0°-180°	7786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1036	1026	1029	1026	1026	98
15°	997	988	997	997	996	281
25°	920	914	927	924	924	424
35°	810	808	822	816	816	506
45°	675	673	680	671	669	519
55°	516	510	509	502	502	460
65°	334	327	328	325	325	331
75°	144	151	160	161	161	156
85°	21	32	38	39	38	29
90°	11	17	17	11	6	8
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1038.5	1029.4	1032.2	1029.9	1026.1
5°	1036.2	1025.7	1029.4	1026.4	1025.6
7.5°	1028.6	1018.4	1023.2	1021.1	1020.2
10°	1021.8	1011.4	1017.0	1015.1	1014.1
12.5°	1012.6	1003.0	1009.3	1007.5	1007.1
15°	997.0	988.5	997.0	997.0	996.0
17.5°	977.2	969.6	978.5	979.2	978.5
20°	963.5	955.1	966.3	965.4	966.3
22.5°	946.7	939.8	951.8	949.3	950.3
25°	920.5	913.9	927.1	924.3	924.3
27.5°	889.5	884.7	899.2	896.1	896.1
30°	868.8	864.2	879.3	875.5	875.5
32.5°	845.9	842.7	857.2	852.6	852.6
35°	809.6	807.6	822.0	816.2	816.2
37.5°	772.1	770.4	783.4	776.5	774.2
40°	744.5	743.7	755.1	747.5	747.5
42.5°	717.0	716.0	726.1	716.9	716.9
45°	674.8	672.9	679.6	670.9	669.0
47.5°	628.7	626.9	631.0	621.6	620.6
50°	597.4	595.5	597.4	588.7	587.8
52.5°	565.3	561.8	562.2	553.6	553.4
55°	516.2	509.6	509.4	501.8	501.8
57.5°	464.1	455.5	456.4	449.7	448.8
60°	428.2	418.8	419.6	413.8	412.9
62.5°	393.0	382.2	384.4	377.9	377.8
65°	334.5	327.0	327.8	324.9	324.9
67.5°	278.3	271.4	276.4	274.2	274.0
70°	237.1	232.3	238.9	238.9	238.1
72.5°	198.8	198.6	206.8	206.8	207.5
75°	144.3	150.9	159.6	160.7	160.7
77.5°	96.4	107.9	117.6	117.9	117.8
80°	68.9	81.9	90.8	92.8	91.8
82.5°	46.6	60.5	67.9	69.7	68.9
85°	21.1	32.3	38.3	39.2	38.3
87.5°	6.1	12.8	15.4	15.4	13.8
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)