

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: P845054

Luminaire Tested: **SQ4P-PC3-150U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845054
REPORT IS A COMBINATION OF REPORTS P700141 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-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

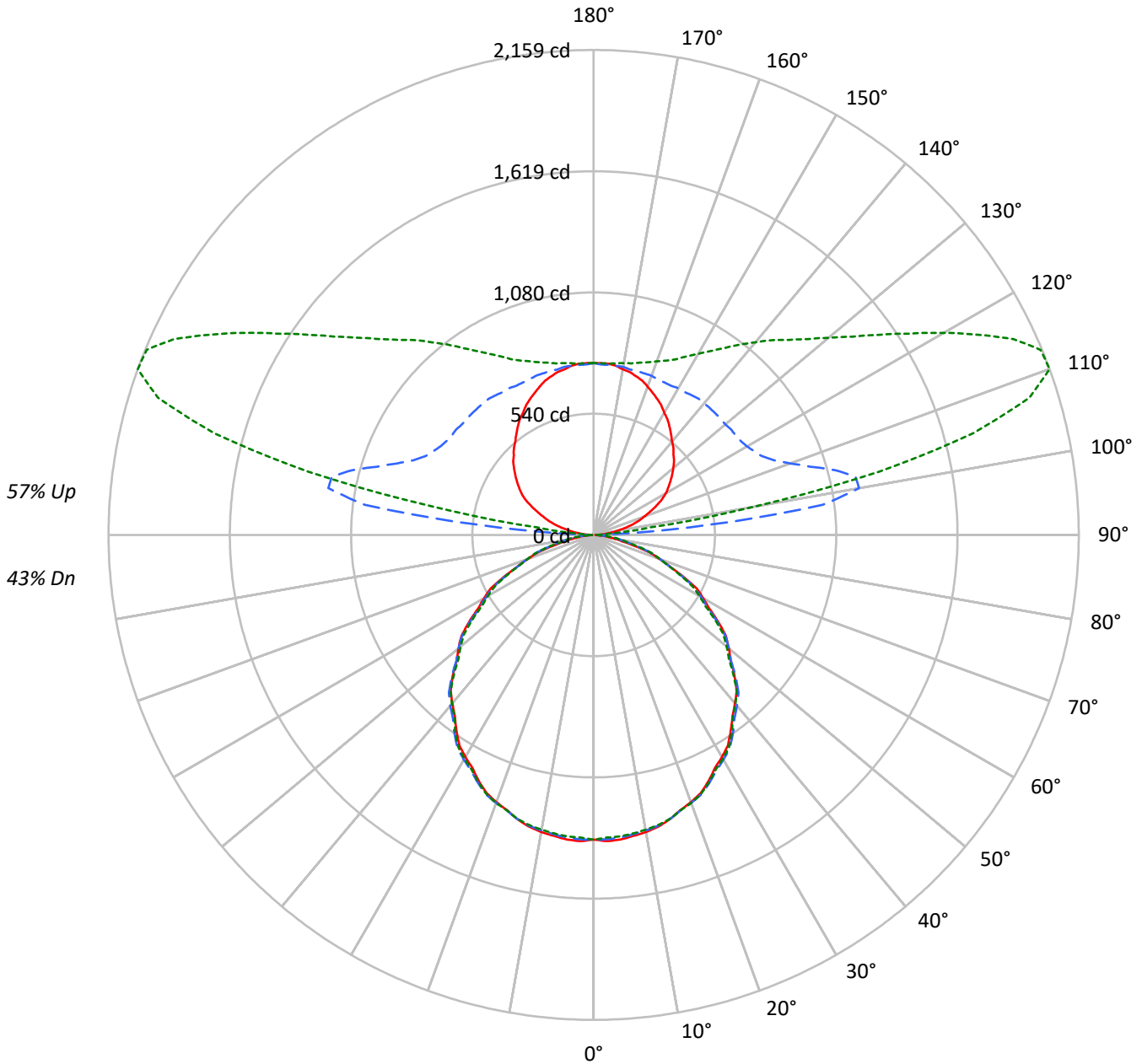
Lumens per Lamp: N/A
Luminaire Lumens: 8670.6 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 77.9
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43								
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36								
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35	30								
3	80	71	63	58	73	65	58	53	54	49	45	44	40	37	34	32	30	26								
4	73	62	55	49	66	57	50	45	48	43	39	39	35	32	30	28	26	22								
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	27	25	22	19								
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	25	22	20	17								
7	57	45	37	31	52	41	34	29	35	29	25	28	24	21	23	20	17	15								
8	53	41	33	28	48	37	31	26	32	26	22	26	22	19	21	18	16	13								
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12								
10	46	34	27	22	42	31	25	21	27	21	18	22	18	15	18	15	13	11								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12513	12513	12513
5°	12609	12528	12482
10°	12579	12520	12484
15°	12513	12513	12499
20°	12431	12466	12466
25°	12313	12401	12364
30°	12162	12309	12256
35°	11982	12164	12080
40°	11783	11950	11830
45°	11571	11652	11470
50°	11267	11267	11088
55°	10909	10768	10608
60°	10383	10175	10010
65°	9595	9407	9320
70°	8406	8468	8438
75°	6759	7479	7525
80°	4808	6339	6408
85°	2932	5314	5314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.5
10°-20°	368.4	4.2
20°-30°	557.9	6.4
30°-40°	668.8	7.7
40°-50°	682.0	7.9
50°-60°	595.3	6.9
60°-70°	426.2	4.9
70°-80°	219.5	2.5
80°-90°	57.4	0.7
90°-100°	304.6	3.5
100°-110°	1059.8	12.2
110°-120°	1026.6	11.8
120°-130°	805.3	9.3
130°-140°	637.4	7.4
140°-150°	491.9	5.7
150°-160°	352.6	4.1
160°-170°	215.7	2.5
170°-180°	73.0	0.8
0°-30°	1054.6	12.2
0°-40°	1723.4	19.9
0°-60°	3000.7	34.6
0°-90°	3703.8	42.7
90°-120°	2391.0	27.6
90°-150°	4325.6	49.9
90°-180°	4967.0	57.3
0°-180°	8670.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1362	1348	1353	1349	1348	129
15°	1310	1299	1310	1310	1309	369
25°	1210	1201	1218	1214	1214	557
35°	1064	1061	1080	1072	1072	665
45°	887	884	893	882	879	683
55°	678	670	669	660	660	605
65°	440	430	431	427	427	435
75°	190	198	210	211	211	205
85°	28	42	50	52	50	38
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°	1356.3	1356.3	1356.3	1356.3	1356.3
2.5°	1364.5	1352.7	1356.3	1353.3	1348.3
5°	1361.5	1347.9	1352.7	1348.8	1347.7
7.5°	1351.6	1338.1	1344.5	1341.8	1340.5
10°	1342.7	1329.0	1336.4	1333.8	1332.5
12.5°	1330.6	1318.0	1326.3	1323.8	1323.4
15°	1310.0	1298.9	1310.0	1310.0	1308.6
17.5°	1284.0	1274.1	1285.7	1286.6	1285.7
20°	1266.1	1255.0	1269.7	1268.4	1269.7
22.5°	1244.0	1234.9	1250.7	1247.4	1248.7
25°	1209.5	1200.9	1218.2	1214.5	1214.5
27.5°	1168.8	1162.5	1181.6	1177.5	1177.5
30°	1141.6	1135.5	1155.4	1150.4	1150.4
32.5°	1111.5	1107.3	1126.4	1120.4	1120.4
35°	1063.8	1061.3	1080.0	1072.5	1072.5
37.5°	1014.5	1012.3	1029.5	1020.4	1017.3
40°	978.3	977.2	992.2	982.2	982.2
42.5°	942.2	940.9	954.1	942.0	942.0
45°	886.8	884.1	893.0	881.6	879.1
47.5°	826.1	823.8	829.1	816.8	815.5
50°	785.0	782.4	785.0	773.6	772.5
52.5°	742.7	738.2	738.6	727.4	727.2
55°	678.2	669.6	669.4	659.5	659.5
57.5°	609.8	598.6	599.7	591.1	589.7
60°	562.7	550.3	551.4	543.8	542.5
62.5°	516.3	502.3	505.0	496.6	496.4
65°	439.5	429.7	430.9	426.9	426.9
67.5°	365.7	356.6	363.2	360.2	360.0
70°	311.6	305.2	313.9	313.9	312.8
72.5°	261.3	261.1	271.6	271.6	272.5
75°	189.6	198.3	209.8	211.1	211.1
77.5°	126.6	141.8	154.6	155.0	154.8
80°	90.5	107.6	119.3	121.9	120.6
82.5°	61.3	79.5	89.1	91.6	90.5
85°	27.7	42.5	50.2	51.6	50.2
87.5°	8.0	16.9	20.2	20.2	18.2
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)