

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: P845056

Luminaire Tested: **SQ4P-PC3-150U-100D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845056
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-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

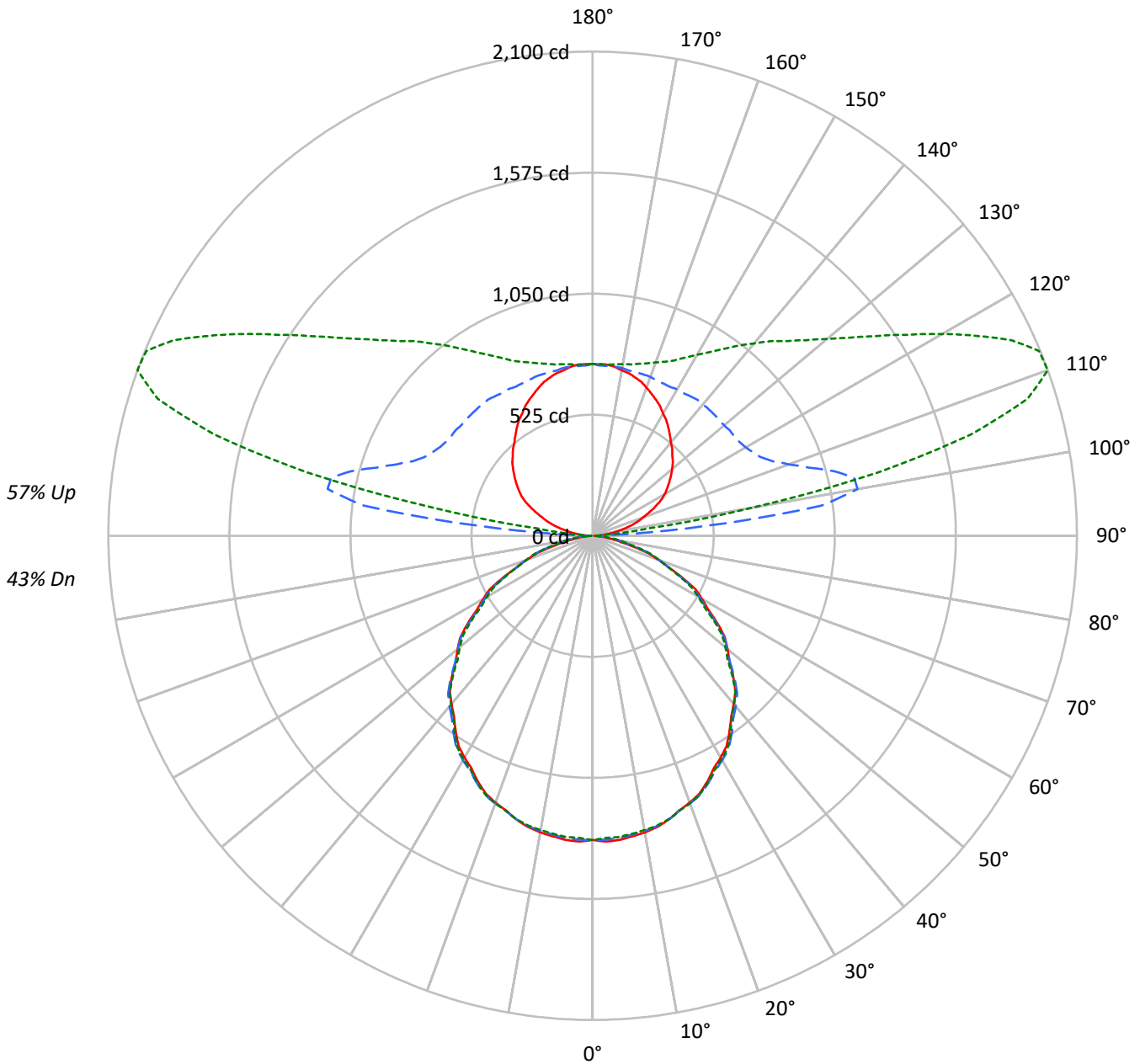
Lumens per Lamp: N/A
Luminaire Lumens: 8435.5 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	12174	12174	12174
5°	12268	12188	12143
10°	12238	12181	12145
15°	12174	12174	12160
20°	12093	12129	12129
25°	11979	12065	12029
30°	11832	11976	11923
35°	11656	11834	11752
40°	11462	11626	11508
45°	11256	11336	11160
50°	10962	10962	10787
55°	10613	10476	10320
60°	10101	9900	9739
65°	9335	9152	9069
70°	8176	8238	8211
75°	6577	7276	7322
80°	4681	6169	6232
85°	2848	5166	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	1.5
10°-20°	358.4	4.2
20°-30°	542.7	6.4
30°-40°	650.7	7.7
40°-50°	663.5	7.9
50°-60°	579.2	6.9
60°-70°	414.6	4.9
70°-80°	213.6	2.5
80°-90°	55.8	0.7
90°-100°	296.3	3.5
100°-110°	1031.0	12.2
110°-120°	998.8	11.8
120°-130°	783.5	9.3
130°-140°	620.1	7.4
140°-150°	478.6	5.7
150°-160°	343.1	4.1
160°-170°	209.8	2.5
170°-180°	71.0	0.8
0°-30°	1026.0	12.2
0°-40°	1676.7	19.9
0°-60°	2919.3	34.6
0°-90°	3603.3	42.7
90°-120°	2326.1	27.6
90°-150°	4208.3	49.9
90°-180°	4832.0	57.3
0°-180°	8435.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1325	1311	1316	1312	1311	126
15°	1274	1264	1274	1274	1273	359
25°	1177	1168	1185	1182	1182	542
35°	1035	1032	1051	1043	1043	647
45°	863	860	869	858	855	664
55°	660	652	651	642	642	588
65°	428	418	419	415	415	423
75°	184	193	204	205	205	199
85°	27	41	49	50	49	37
90°	11	17	17	11	6	8
95°	50	172	500	128	78	53
105°	172	244	1084	1828	1700	181
115°	300	361	806	1700	2006	296
125°	406	500	750	1267	1511	363
135°	489	550	745	1056	1195	379
145°	572	611	739	911	989	358
155°	650	672	728	811	839	300
165°	711	717	733	767	772	201
175°	745	745	739	750	745	71
180°	745	745	745	745	745	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1319.5	1319.5	1319.5	1319.5	1319.5
2.5°	1327.5	1316.0	1319.5	1316.6	1311.7
5°	1324.6	1311.3	1316.0	1312.2	1311.1
7.5°	1314.9	1301.8	1308.0	1305.4	1304.2
10°	1306.3	1292.9	1300.2	1297.6	1296.4
12.5°	1294.5	1282.3	1290.3	1287.9	1287.5
15°	1274.5	1263.7	1274.5	1274.5	1273.1
17.5°	1249.2	1239.5	1250.9	1251.7	1250.9
20°	1231.7	1221.0	1235.3	1234.0	1235.3
22.5°	1210.2	1201.4	1216.8	1213.5	1214.9
25°	1176.7	1168.3	1185.2	1181.6	1181.6
27.5°	1137.1	1131.0	1149.6	1145.6	1145.6
30°	1110.6	1104.7	1124.1	1119.2	1119.2
32.5°	1081.3	1077.3	1095.9	1090.0	1090.0
35°	1034.9	1032.5	1050.7	1043.4	1043.4
37.5°	987.0	984.9	1001.5	992.7	989.7
40°	951.7	950.7	965.3	955.5	955.5
42.5°	916.6	915.4	928.2	916.4	916.4
45°	862.7	860.2	868.8	857.7	855.3
47.5°	803.7	801.4	806.7	794.7	793.4
50°	763.7	761.1	763.7	752.6	751.5
52.5°	722.6	718.2	718.6	707.6	707.4
55°	659.8	651.5	651.3	641.6	641.6
57.5°	593.3	582.4	583.4	575.0	573.7
60°	547.4	535.4	536.5	529.0	527.8
62.5°	502.3	488.7	491.3	483.2	483.0
65°	427.6	418.0	419.2	415.4	415.4
67.5°	355.8	346.9	353.4	350.4	350.2
70°	303.1	296.9	305.4	305.4	304.4
72.5°	254.2	254.0	264.3	264.3	265.1
75°	184.5	192.9	204.1	205.4	205.4
77.5°	123.2	137.9	150.4	150.8	150.6
80°	88.1	104.7	116.1	118.6	117.3
82.5°	59.6	77.3	86.7	89.1	88.1
85°	26.9	41.3	48.8	50.2	48.8
87.5°	7.8	16.5	19.6	19.6	17.7
90°	11.1	16.7	16.7	11.1	5.5
92.5°	27.8	83.3	77.8	33.3	27.8
95°	50.0	172.2	500.1	127.8	77.8
97.5°	77.8	194.5	1000.2	455.6	244.5
100°	105.6	205.5	1166.9	1094.6	705.6
102.5°	138.9	222.3	1161.3	1539.1	1266.9
105°	172.2	244.5	1083.5	1828.1	1700.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.7	327.9	844.5	1839.2	2094.7
115°	300.1	361.2	805.7	1700.3	2005.9
117.5°	333.4	400.0	783.4	1572.5	1878.1
120°	361.2	433.4	766.8	1450.2	1750.3
122.5°	383.4	466.8	755.7	1350.3	1622.4
125°	405.7	500.1	750.1	1266.9	1511.3
127.5°	427.8	522.3	750.1	1205.7	1411.4
130°	450.1	533.4	744.6	1144.6	1328.0
132.5°	472.3	538.9	744.6	1100.2	1255.7
135°	489.0	550.1	744.6	1055.7	1194.6
137.5°	511.2	561.2	744.6	1016.9	1144.6
140°	527.9	577.9	744.6	977.9	1089.0
142.5°	550.1	594.5	744.6	939.1	1039.0
145°	572.4	611.2	739.0	911.3	989.1
147.5°	594.5	627.9	733.4	883.5	944.6
150°	611.2	644.5	733.4	855.7	905.7
152.5°	633.5	661.2	727.9	827.9	872.3
155°	650.1	672.3	727.9	811.2	839.0
157.5°	666.8	689.0	727.9	794.6	816.8
160°	683.5	700.1	733.4	783.4	800.1
162.5°	700.1	711.3	733.4	772.4	783.4
165°	711.3	716.8	733.4	766.8	772.4
167.5°	722.3	727.9	733.4	761.2	761.2
170°	727.9	733.4	739.0	755.7	755.7
172.5°	739.0	739.0	739.0	750.1	750.1
175°	744.6	744.6	739.0	750.1	744.6
177.5°	744.6	744.6	739.0	750.1	744.6
180°	744.6	744.6	744.6	744.6	744.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	205.5	272.3	983.5	1955.8	1978.1
110°	233.3	300.1	905.7	1939.2	2100.4



(END OF REPORT)