

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: P845066

Luminaire Tested: **SQ4P-PP3-025U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845066
REPORT IS A COMBINATION OF REPORTS P700173 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-025U-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

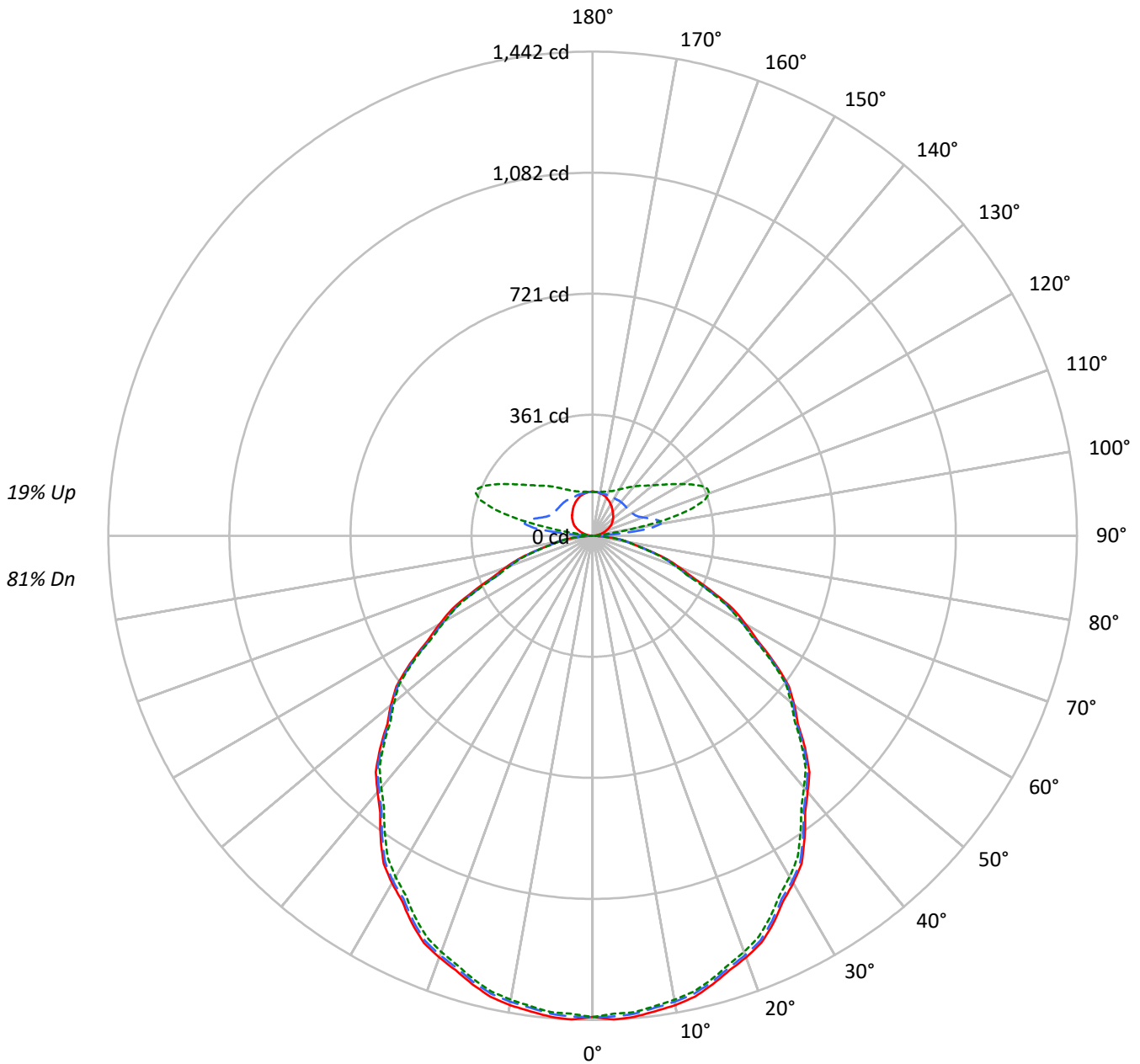
Lumens per Lamp: N/A
Luminaire Lumens: 4519.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 41.9
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				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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81			
1	105	101	97	93	101	97	93	90	89	86	84	82	80	78	76	74	72	69			
2	96	88	82	77	92	85	79	74	78	74	70	72	69	66	67	64	61	58			
3	88	78	70	64	84	75	68	63	69	64	59	64	60	56	59	56	53	50			
4	80	69	61	55	77	67	59	53	62	56	51	57	52	48	53	49	45	43			
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	48	43	40	37			
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33			
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29			
8	59	46	38	32	56	45	37	32	42	35	31	39	33	29	37	32	28	26			
9	55	42	34	29	53	41	34	29	38	32	27	36	30	26	34	29	25	23			
10	52	39	31	26	49	38	31	26	36	29	25	33	28	24	31	27	23	21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13221	13221	13221
5°	13318	13236	13190
10°	13296	13202	13144
15°	13208	13136	13063
20°	13119	13046	12947
25°	12964	12876	12748
30°	12725	12658	12497
35°	12392	12307	12151
40°	11995	11919	11784
45°	11669	11586	11470
50°	11247	11176	11068
55°	10666	10526	10446
60°	9710	9433	9387
65°	8556	8198	8169
70°	7383	7081	7081
75°	6359	6267	6174
80°	5605	5674	5531
85°	4383	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	3.0
10°-20°	386.9	8.6
20°-30°	579.5	12.8
30°-40°	679.8	15.0
40°-50°	681.8	15.1
50°-60°	581.7	12.9
60°-70°	379.4	8.4
70°-80°	190.3	4.2
80°-90°	53.0	1.2
90°-100°	52.2	1.2
100°-110°	181.6	4.0
110°-120°	175.9	3.9
120°-130°	138.0	3.1
130°-140°	109.2	2.4
140°-150°	84.3	1.9
150°-160°	60.4	1.3
160°-170°	37.0	0.8
170°-180°	12.5	0.3
0°-30°	1102.0	24.4
0°-40°	1781.7	39.4
0°-60°	3045.3	67.4
0°-90°	3668.0	81.2
90°-120°	409.7	9.1
90°-150°	741.2	16.4
90°-180°	851.0	18.8
0°-180°	4519.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1438	1425	1429	1424	1424	137
15°	1383	1369	1375	1370	1368	390
25°	1274	1259	1265	1253	1252	586
35°	1100	1089	1093	1080	1079	687
45°	894	888	888	879	879	689
55°	663	661	654	650	649	589
65°	392	385	376	373	374	391
75°	178	178	176	175	173	193
85°	41	45	45	45	45	49
90°	2	3	3	2	1	3
95°	9	30	88	22	14	9
105°	30	43	191	322	300	32
115°	53	64	142	300	353	52
125°	71	88	132	223	266	64
135°	86	97	131	186	210	67
145°	101	108	130	160	174	63
155°	114	118	128	143	148	53
165°	125	126	129	135	136	35
175°	131	131	130	132	131	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.0	1433.0	1433.0	1433.0	1433.0
2.5°	1441.9	1430.3	1433.0	1430.9	1425.1
5°	1438.0	1424.6	1429.2	1424.2	1424.2
7.5°	1428.3	1413.5	1418.1	1413.1	1413.0
10°	1419.2	1404.4	1409.2	1404.0	1403.0
12.5°	1406.2	1391.5	1397.1	1391.0	1390.8
15°	1382.8	1369.2	1375.3	1370.1	1367.6
17.5°	1356.4	1341.7	1348.9	1341.9	1340.8
20°	1336.2	1321.6	1328.7	1318.7	1318.7
22.5°	1312.3	1297.5	1305.7	1292.5	1292.5
25°	1273.5	1258.7	1264.8	1253.3	1252.3
27.5°	1227.5	1213.0	1219.3	1206.4	1206.1
30°	1194.4	1180.8	1188.2	1174.3	1173.0
32.5°	1158.2	1145.7	1150.9	1137.1	1135.7
35°	1100.2	1089.1	1092.7	1080.1	1078.8
37.5°	1039.1	1027.9	1031.8	1020.9	1020.5
40°	995.9	988.5	989.6	980.7	978.4
42.5°	955.8	947.3	948.4	939.5	939.1
45°	894.3	888.0	888.0	879.1	879.1
47.5°	828.9	824.1	822.9	815.4	815.2
50°	783.6	780.0	778.6	772.4	771.1
52.5°	736.5	734.7	730.4	725.2	725.0
55°	663.1	660.6	654.4	650.5	649.4
57.5°	583.6	578.6	571.5	566.0	566.9
60°	526.2	521.2	511.2	508.7	508.7
62.5°	471.0	465.1	454.9	451.5	453.5
65°	391.9	384.6	375.5	373.1	374.2
67.5°	320.1	313.3	303.6	303.6	302.8
70°	273.7	270.0	262.5	262.5	262.5
72.5°	232.6	230.8	225.5	225.2	224.3
75°	178.4	178.4	175.8	174.6	173.2
77.5°	133.6	134.1	133.0	131.6	129.3
80°	105.5	108.0	106.8	105.5	104.1
82.5°	79.5	81.8	81.6	79.5	79.1
85°	41.4	45.0	45.2	45.2	45.2
87.5°	11.1	15.0	16.0	16.0	17.1
90°	2.0	2.9	2.9	2.0	1.0
92.5°	4.9	14.7	13.7	5.9	4.9
95°	8.8	30.3	88.1	22.5	13.7
97.5°	13.7	34.2	176.1	80.2	43.1
100°	18.6	36.2	205.5	192.8	124.3
102.5°	24.5	39.1	204.5	271.1	223.1
105°	30.3	43.1	190.8	322.0	299.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.0	57.7	148.7	324.0	369.0
115°	52.8	63.6	141.9	299.5	353.4
117.5°	58.7	70.5	138.0	276.9	330.9
120°	63.6	76.3	135.0	255.4	308.3
122.5°	67.5	82.2	133.1	237.8	285.8
125°	71.4	88.1	132.1	223.1	266.2
127.5°	75.3	92.0	132.1	212.3	248.6
130°	79.3	93.9	131.1	201.6	233.9
132.5°	83.2	94.9	131.1	193.8	221.2
135°	86.1	96.9	131.1	185.9	210.4
137.5°	90.0	98.8	131.1	179.1	201.6
140°	93.0	101.8	131.1	172.2	191.8
142.5°	96.9	104.7	131.1	165.4	183.0
145°	100.8	107.6	130.1	160.5	174.2
147.5°	104.7	110.6	129.2	155.6	166.4
150°	107.6	113.5	129.2	150.7	159.5
152.5°	111.6	116.4	128.2	145.8	153.6
155°	114.5	118.4	128.2	142.9	147.8
157.5°	117.4	121.3	128.2	139.9	143.8
160°	120.4	123.3	129.2	138.0	140.9
162.5°	123.3	125.3	129.2	136.0	138.0
165°	125.3	126.2	129.2	135.0	136.0
167.5°	127.2	128.2	129.2	134.1	134.1
170°	128.2	129.2	130.1	133.1	133.1
172.5°	130.1	130.1	130.1	132.1	132.1
175°	131.1	131.1	130.1	132.1	131.1
177.5°	131.1	131.1	130.1	132.1	131.1
180°	131.1	131.1	131.1	131.1	131.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	36.2	47.9	173.2	344.6	348.5
110°	41.1	52.8	159.5	341.6	370.0



(END OF REPORT)