

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: P845090

Luminaire Tested: **SQ4P-PP3-075U-100D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845090
REPORT IS A COMBINATION OF REPORTS P700229 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-075U-100D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 1000 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

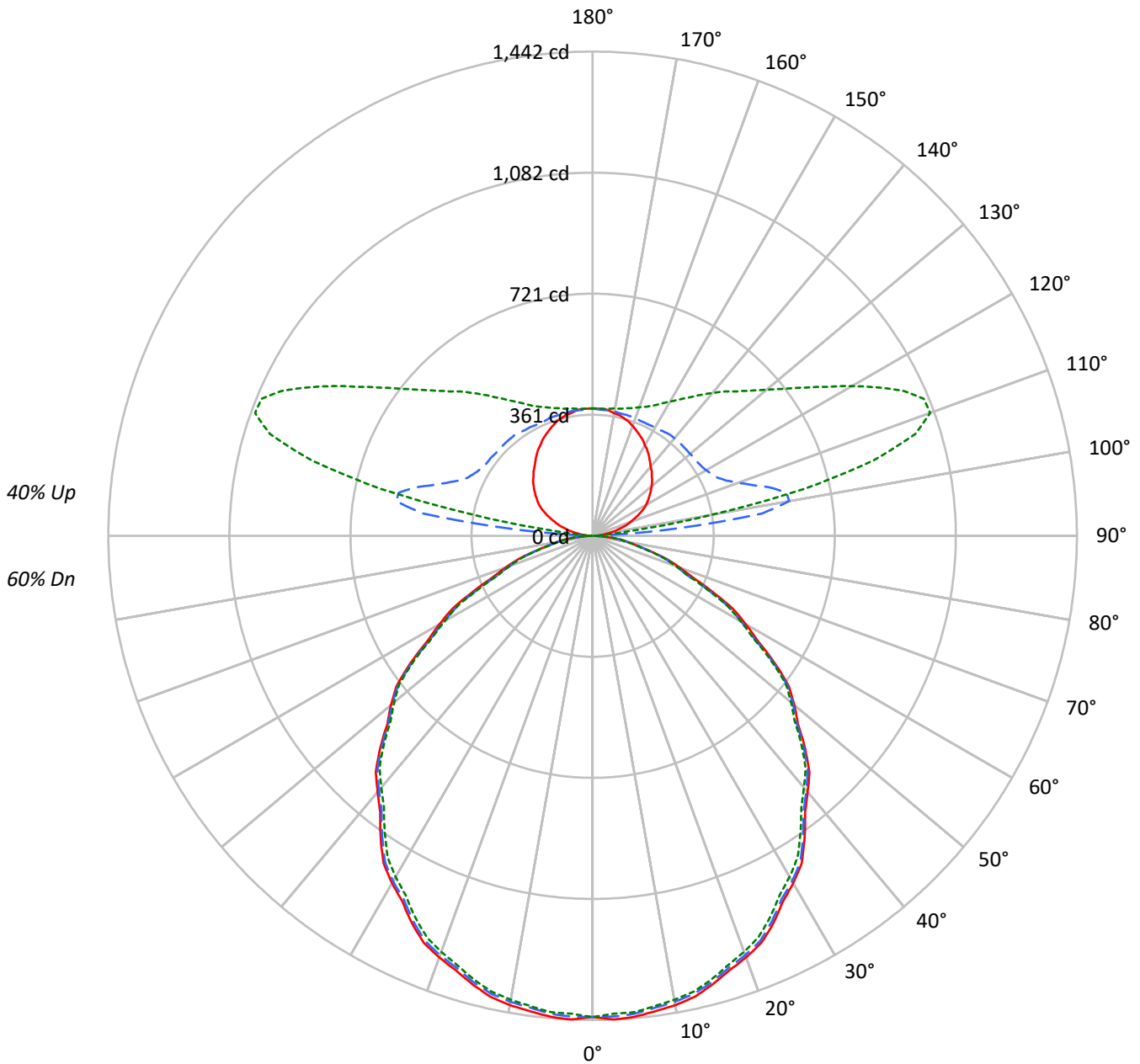
Lumens per Lamp: N/A
Luminaire Lumens: 6129.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 53.9
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									
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60																			
1	100	96	92	89	94	90	86	83	78	76	74	68	66	64	58	57	56	51																			
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47	43																			
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40	37																			
4	77	66	58	52	71	62	55	49	54	49	44	47	43	39	41	38	35	32																			
5	70	59	50	44	65	55	48	42	49	43	38	43	38	34	37	33	30	27																			
6	65	53	44	39	60	50	42	37	44	38	33	38	34	30	33	30	27	24																			
7	60	48	40	34	56	45	38	32	40	34	30	35	30	27	31	27	24	21																			
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19																			
9	52	40	32	27	49	37	31	26	33	28	24	30	25	21	26	22	19	17																			
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16																			

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	2.2
10°-20°	386.9	6.3
20°-30°	579.5	9.5
30°-40°	679.8	11.1
40°-50°	681.8	11.1
50°-60°	581.7	9.5
60°-70°	379.4	6.2
70°-80°	190.3	3.1
80°-90°	53.6	0.9
90°-100°	150.9	2.5
100°-110°	525.0	8.6
110°-120°	508.6	8.3
120°-130°	398.9	6.5
130°-140°	315.7	5.2
140°-150°	243.7	4.0
150°-160°	174.7	2.8
160°-170°	106.8	1.7
170°-180°	36.1	0.6
0°-30°	1102.0	18.0
0°-40°	1781.7	29.1
0°-60°	3045.3	49.7
0°-90°	3668.6	59.9
90°-120°	1184.4	19.3
90°-150°	2142.8	35.0
90°-180°	2460.0	40.1
0°-180°	6129.0	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°	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°	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°	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)