

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563276

Luminaire Tested: **SQ4-PP3-050U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563276  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-050D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

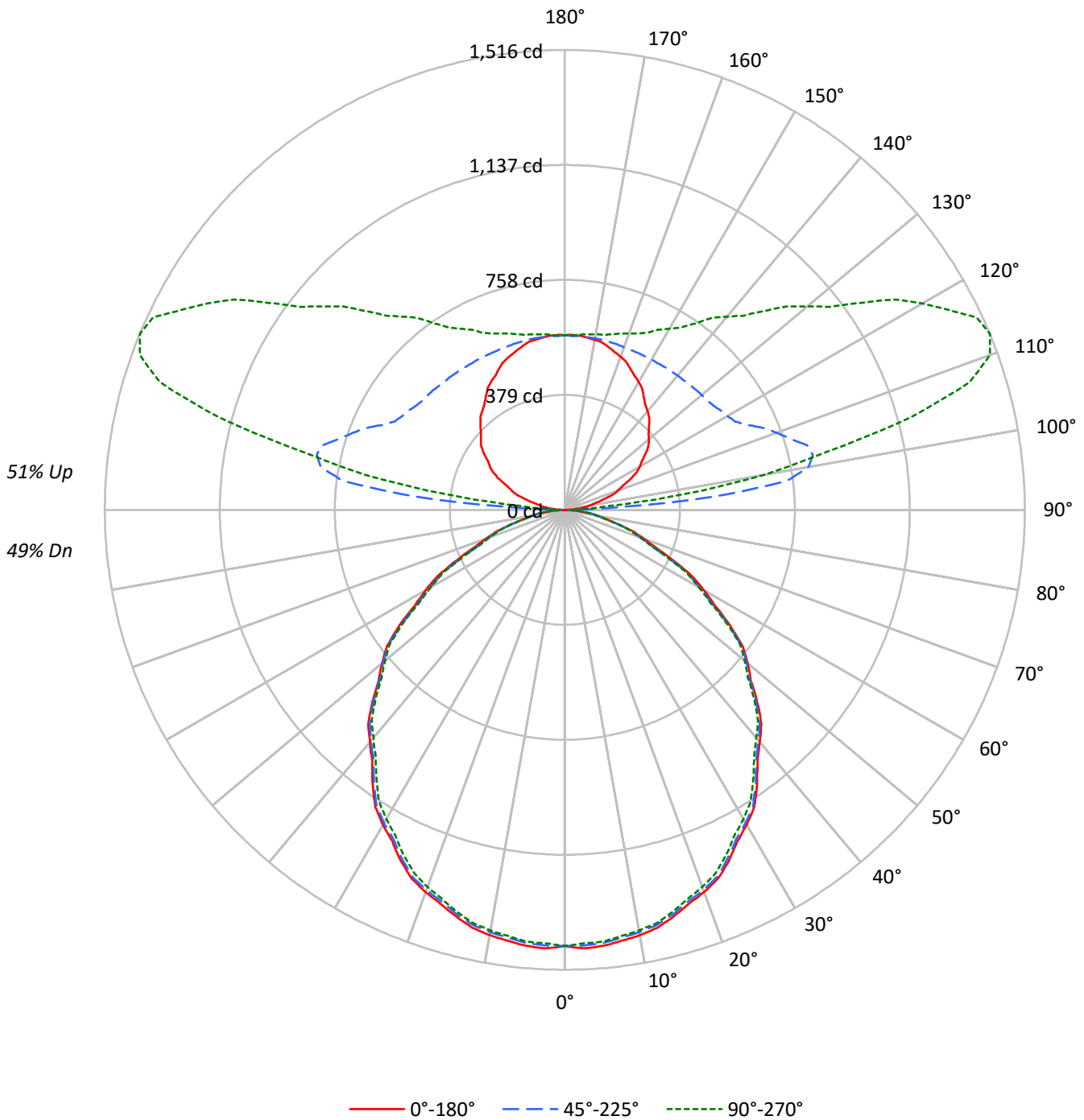
Lumens per Lamp: N/A  
Luminaire Lumens: 7442.5 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.9  
Input Voltage (V): 120  
Input Current (Ain): 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: 24 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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	36
3	82	72	65	59	75	67	61	55	57	52	48	48	44	41	39	36	34	30
4	75	64	56	50	69	59	52	47	51	45	41	42	38	35	35	32	30	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6384	6350	6269
35°	6217	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4292	4113	4099
70°	3705	3553	3553
75°	3189	3144	3100
80°	2811	2845	2779
85°	2202	2403	2403



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.0	1.8
10°-20°	388.2	5.2
20°-30°	581.5	7.8
30°-40°	682.0	9.2
40°-50°	684.2	9.2
50°-60°	583.6	7.8
60°-70°	380.6	5.1
70°-80°	191.0	2.6
80°-90°	55.1	0.7
90°-100°	276.5	3.7
100°-110°	751.0	10.1
110°-120°	772.2	10.4
120°-130°	617.4	8.3
130°-140°	485.1	6.5
140°-150°	372.0	5.0
150°-160°	267.5	3.6
160°-170°	163.6	2.2
170°-180°	55.1	0.7
0°-30°	1105.6	14.9
0°-40°	1787.7	24.0
0°-60°	3055.5	41.1
0°-90°	3682.2	49.5
90°-120°	1799.7	24.2
90°-150°	3274.1	44.0
90°-180°	3760.0	50.5
0°-180°	7442.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1443	1429	1434	1429	1429	137
15°	1387	1374	1380	1375	1372	391
25°	1278	1263	1269	1258	1256	588
35°	1104	1093	1096	1084	1082	690
45°	897	891	891	882	882	691
55°	665	663	656	653	652	591
65°	393	386	377	374	376	392
75°	179	179	176	175	174	194
85°	42	45	45	45	45	49
90°	2	7	13	17	17	4
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1446.9	1435.0	1437.8	1435.6	1429.7
5°	1442.8	1429.3	1434.0	1429.0	1429.0
7.5°	1433.0	1418.2	1422.9	1417.9	1417.6
10°	1423.9	1409.1	1413.8	1408.8	1407.5
12.5°	1410.8	1396.0	1401.7	1395.7	1395.4
15°	1387.4	1373.8	1379.8	1374.7	1372.3
17.5°	1360.9	1346.1	1353.4	1346.3	1345.3
20°	1340.8	1326.0	1333.2	1323.1	1323.1
22.5°	1316.6	1301.8	1310.0	1296.9	1296.9
25°	1277.8	1263.0	1268.9	1257.6	1256.3
27.5°	1231.6	1217.1	1223.3	1210.5	1210.2
30°	1198.4	1184.8	1192.1	1178.2	1176.9
32.5°	1162.1	1149.5	1154.8	1140.9	1139.6
35°	1103.9	1092.8	1096.3	1083.7	1082.4
37.5°	1042.6	1031.3	1035.3	1024.5	1024.0
40°	999.3	991.9	993.0	984.1	981.6
42.5°	958.9	950.6	951.6	942.8	942.3
45°	897.2	891.0	890.9	882.1	882.1
47.5°	831.7	827.0	825.6	818.3	818.1
50°	786.3	782.6	781.3	774.9	773.7
52.5°	738.9	737.2	732.9	727.6	727.3
55°	665.3	662.9	656.5	652.7	651.5
57.5°	585.4	580.5	573.4	567.8	568.8
60°	528.0	523.1	512.9	510.3	510.3
62.5°	472.5	466.6	456.4	452.9	454.9
65°	393.2	385.8	376.8	374.3	375.5
67.5°	321.1	314.4	304.7	304.7	303.7
70°	274.7	271.0	263.4	263.4	263.4
72.5°	233.4	231.6	226.1	226.0	225.1
75°	178.9	178.9	176.4	175.1	173.9
77.5°	134.1	134.6	133.3	132.0	129.8
80°	105.8	108.3	107.1	105.8	104.6
82.5°	79.6	82.1	81.9	79.6	79.4
85°	41.6	45.3	45.4	45.4	45.4
87.5°	11.5	16.5	18.7	19.5	20.5
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)