

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: P563322

Luminaire Tested: **SQ4-PP3-050U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563322
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-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

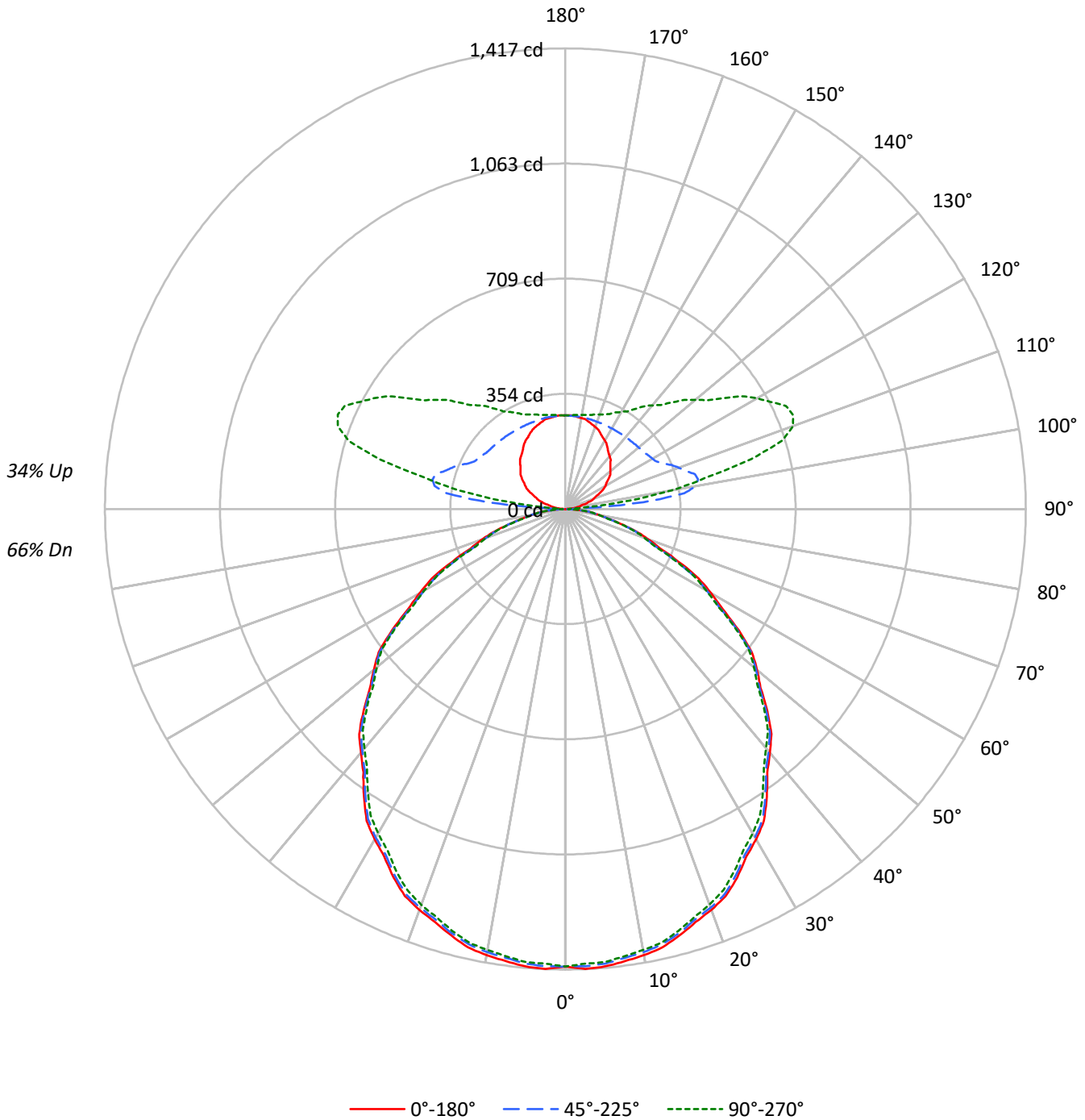
Lumens per Lamp: N/A
Luminaire Lumens: 5484.5 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13063	12970	12912
15°	12976	12905	12835
20°	12889	12817	12721
25°	12736	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8405	8053	8027
70°	7256	6957	6957
75°	6245	6156	6071
80°	5504	5574	5441
85°	4308	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	2.4
10°-20°	380.1	6.9
20°-30°	569.4	10.4
30°-40°	667.8	12.2
40°-50°	669.9	12.2
50°-60°	571.5	10.4
60°-70°	372.7	6.8
70°-80°	187.0	3.4
80°-90°	52.8	1.0
90°-100°	138.2	2.5
100°-110°	375.5	6.8
110°-120°	386.1	7.0
120°-130°	308.7	5.6
130°-140°	242.5	4.4
140°-150°	186.0	3.4
150°-160°	133.7	2.4
160°-170°	81.8	1.5
170°-180°	27.6	0.5
0°-30°	1082.6	19.7
0°-40°	1750.4	31.9
0°-60°	2991.8	54.6
0°-90°	3604.4	65.7
90°-120°	899.8	16.4
90°-150°	1637.0	29.8
90°-180°	1880.0	34.3
0°-180°	5484.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1413	1400	1404	1399	1399	134
15°	1358	1345	1351	1346	1344	383
25°	1251	1237	1242	1231	1230	575
35°	1081	1070	1074	1061	1060	675
45°	878	872	872	864	864	676
55°	652	649	643	639	638	579
65°	385	378	369	366	368	384
75°	175	175	173	172	170	190
85°	41	44	44	44	44	48
90°	1	4	6	8	8	3
95°	20	76	241	105	70	22
105°	67	104	413	629	592	71
115°	118	144	330	658	749	117
125°	163	186	299	504	594	145
135°	196	218	291	410	463	152
145°	227	243	287	349	375	142
155°	256	266	285	313	322	118
165°	278	281	286	298	299	78
175°	288	289	287	291	290	27
180°	288	288	288	288	288	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1416.7	1405.1	1407.8	1405.7	1400.0
5°	1412.8	1399.5	1404.1	1399.2	1399.2
7.5°	1403.2	1388.7	1393.3	1388.3	1388.1
10°	1394.3	1379.8	1384.4	1379.4	1378.2
12.5°	1381.4	1367.0	1372.6	1366.6	1366.4
15°	1358.5	1345.2	1351.1	1346.1	1343.7
17.5°	1332.6	1318.1	1325.2	1318.2	1317.3
20°	1312.8	1298.4	1305.4	1295.6	1295.6
22.5°	1289.1	1274.7	1282.7	1269.9	1269.9
25°	1251.1	1236.7	1242.5	1231.4	1230.2
27.5°	1206.0	1191.7	1197.8	1185.3	1185.0
30°	1173.4	1160.1	1167.2	1153.6	1152.4
32.5°	1137.9	1125.6	1130.7	1117.1	1115.9
35°	1080.9	1070.0	1073.5	1061.1	1059.9
37.5°	1020.9	1009.8	1013.7	1003.1	1002.6
40°	978.5	971.2	972.3	963.6	961.2
42.5°	939.0	930.8	931.8	923.2	922.7
45°	878.5	872.5	872.3	863.7	863.7
47.5°	814.4	809.8	808.4	801.3	801.0
50°	769.9	766.3	765.0	758.8	757.6
52.5°	723.5	721.9	717.6	712.4	712.2
55°	651.5	649.1	642.8	639.1	637.9
57.5°	573.3	568.4	561.4	556.0	557.0
60°	517.0	512.2	502.2	499.7	499.7
62.5°	462.7	456.9	446.9	443.5	445.4
65°	385.0	377.7	368.9	366.5	367.7
67.5°	314.4	307.9	298.4	298.3	297.4
70°	269.0	265.4	257.9	257.9	257.9
72.5°	228.5	226.8	221.4	221.3	220.4
75°	175.2	175.2	172.7	171.5	170.3
77.5°	131.3	131.8	130.5	129.3	127.1
80°	103.6	106.1	104.9	103.6	102.4
82.5°	78.0	80.4	80.2	78.0	77.7
85°	40.7	44.3	44.4	44.4	44.4
87.5°	11.0	15.4	17.1	17.5	18.4
90°	0.9	3.6	6.5	8.3	8.3
92.5°	8.3	37.8	65.7	28.2	23.9
95°	20.4	75.6	240.7	104.8	70.4
97.5°	33.7	83.5	369.1	287.1	201.7
100°	42.6	88.8	408.3	413.9	334.3
102.5°	51.5	94.0	418.7	511.9	441.7
105°	66.7	103.8	413.0	628.8	591.7
107.5°	82.4	115.2	389.1	689.1	699.4
110°	93.5	123.4	371.3	701.0	745.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.1	131.6	353.5	691.1	757.9
115°	118.5	143.9	330.5	657.6	749.1
117.5°	133.0	157.2	315.9	610.1	713.1
120°	142.6	166.1	309.3	578.2	680.5
122.5°	150.7	174.3	304.8	546.3	645.0
125°	163.0	185.6	299.1	503.9	594.4
127.5°	173.9	196.3	295.9	471.8	549.4
130°	180.6	202.3	294.4	451.6	521.3
132.5°	187.2	208.9	293.0	434.4	496.1
135°	196.3	218.0	290.7	410.4	463.0
137.5°	206.1	225.8	289.6	389.3	433.5
140°	212.0	231.0	288.9	375.9	415.7
142.5°	218.0	235.5	288.1	365.4	398.7
145°	226.8	243.1	287.0	348.7	375.0
147.5°	236.8	250.8	286.1	335.6	356.3
150°	243.5	255.3	286.1	328.1	344.4
152.5°	248.7	259.0	285.4	321.4	334.8
155°	256.5	265.5	285.2	313.2	322.2
157.5°	264.1	271.1	285.2	307.6	314.4
160°	268.5	274.9	285.2	303.8	309.3
162.5°	273.0	277.8	285.9	300.8	304.8
165°	277.8	281.4	286.1	298.2	299.1
167.5°	282.8	284.6	287.0	295.0	295.7
170°	284.3	286.1	287.0	293.5	293.5
172.5°	285.7	286.8	287.0	292.0	292.0
175°	288.0	288.9	287.0	290.7	289.8
177.5°	288.7	288.7	286.5	289.4	288.0
180°	288.0	288.0	288.0	288.0	288.0

(END OF REPORT)