

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: P563226

Luminaire Tested: **SQ4-PP3-025U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563226
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

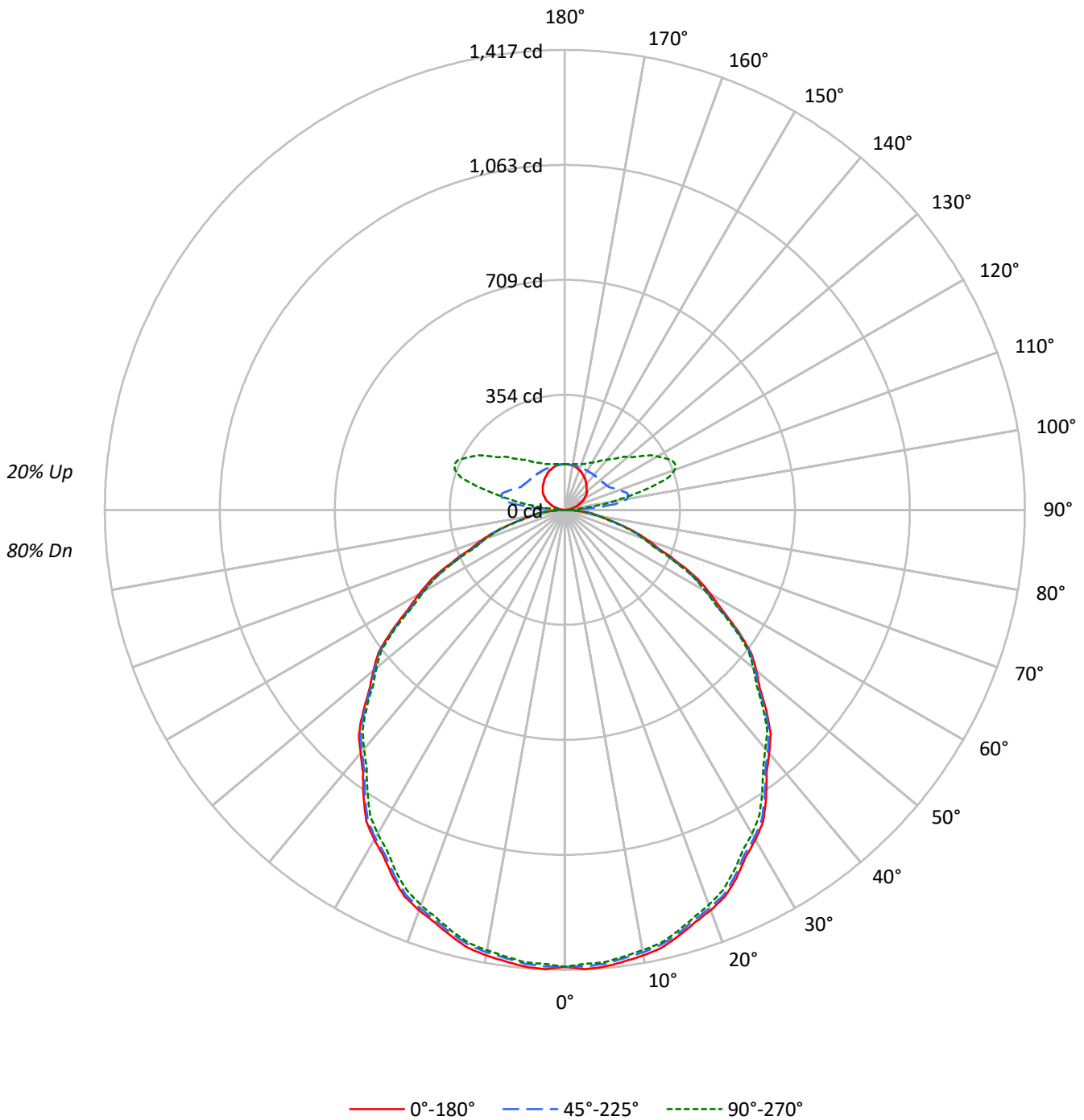
Lumens per Lamp: N/A
Luminaire Lumens: 4515.8 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.7
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80
1	105	100	96	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	76	91	85	79	74	78	73	69	72	68	65	66	63	60	57
3	88	78	70	64	83	75	68	62	69	63	59	64	59	55	59	55	52	49
4	80	69	61	55	76	66	59	53	61	55	50	57	52	47	52	48	45	42
5	74	62	53	47	70	59	52	46	55	49	44	51	46	41	47	43	39	37
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	35	32
7	63	50	42	36	60	49	41	35	45	39	34	42	37	32	39	34	31	29
8	59	46	38	32	56	44	37	32	41	35	30	39	33	29	36	31	28	26
9	55	42	34	29	52	41	33	28	38	32	27	36	30	26	33	29	25	23
10	51	39	31	26	49	38	30	26	35	29	25	33	28	24	31	26	23	21

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	2.9
10°-20°	380.1	8.4
20°-30°	569.4	12.6
30°-40°	667.8	14.8
40°-50°	669.9	14.8
50°-60°	571.5	12.7
60°-70°	372.7	8.3
70°-80°	187.0	4.1
80°-90°	52.5	1.2
90°-100°	68.6	1.5
100°-110°	180.2	4.0
110°-120°	186.9	4.1
120°-130°	149.9	3.3
130°-140°	117.6	2.6
140°-150°	90.3	2.0
150°-160°	65.0	1.4
160°-170°	39.8	0.9
170°-180°	13.4	0.3
0°-30°	1082.6	24.0
0°-40°	1750.4	38.8
0°-60°	2991.8	66.3
0°-90°	3604.1	79.8
90°-120°	435.7	9.6
90°-150°	793.5	17.6
90°-180°	912.0	20.2
0°-180°	4515.8	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	3	7	4	4	2
95°	9	36	118	61	42	10
105°	32	49	199	302	282	34
115°	58	70	160	318	363	57
125°	80	90	145	245	289	71
135°	96	105	141	198	224	74
145°	111	118	139	169	182	69
155°	125	129	139	152	157	58
165°	135	137	139	144	146	38
175°	141	141	140	142	142	13
180°	141	141	141	141	141	

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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	15.3	17.2	16.5	17.5
90°	0.9	2.7	7.2	3.6	3.6
92.5°	3.8	18.2	40.4	17.9	11.5
95°	9.0	35.5	118.1	60.9	41.5
97.5°	15.7	39.0	176.7	140.5	103.5
100°	20.7	41.9	194.8	197.4	153.3
102.5°	25.1	44.8	199.8	245.8	208.1
105°	32.5	49.2	199.3	302.5	282.2
107.5°	40.0	55.6	187.9	331.9	336.9
110°	45.1	59.2	178.5	339.5	360.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.1	63.5	169.9	334.7	367.2
115°	57.7	70.1	159.6	318.4	363.4
117.5°	65.1	76.4	152.6	295.8	345.7
120°	69.4	80.0	149.7	280.6	329.1
122.5°	73.8	84.3	147.5	265.5	313.2
125°	80.3	89.9	145.2	245.4	289.4
127.5°	85.5	95.4	143.2	229.2	266.4
130°	88.4	98.9	142.5	219.0	253.4
132.5°	91.3	101.8	141.7	210.3	241.1
135°	95.6	105.3	140.7	198.1	224.5
137.5°	100.1	109.6	140.5	188.9	210.6
140°	103.7	112.5	139.8	181.7	202.0
142.5°	106.6	114.7	139.8	176.6	194.0
145°	110.9	118.0	138.9	168.9	182.1
147.5°	115.2	122.1	138.9	162.6	173.5
150°	118.1	124.3	138.9	158.9	167.7
152.5°	121.0	125.8	138.9	156.0	162.7
155°	125.3	128.9	138.9	152.5	156.9
157.5°	128.6	131.9	138.9	149.4	152.6
160°	130.7	133.4	138.9	147.9	149.7
162.5°	132.9	134.8	138.9	146.5	148.2
165°	135.3	137.0	138.9	144.3	146.1
167.5°	137.4	138.3	139.8	143.4	144.1
170°	138.9	139.7	139.8	143.4	143.4
172.5°	139.6	139.8	139.8	142.6	141.9
175°	140.7	140.7	139.8	141.6	141.6
177.5°	140.7	140.7	139.9	141.4	140.7
180°	140.7	140.7	140.7	140.7	140.7

(END OF REPORT)