

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: P563902

Luminaire Tested: **SQ4-PR1-025U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563902
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-025U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

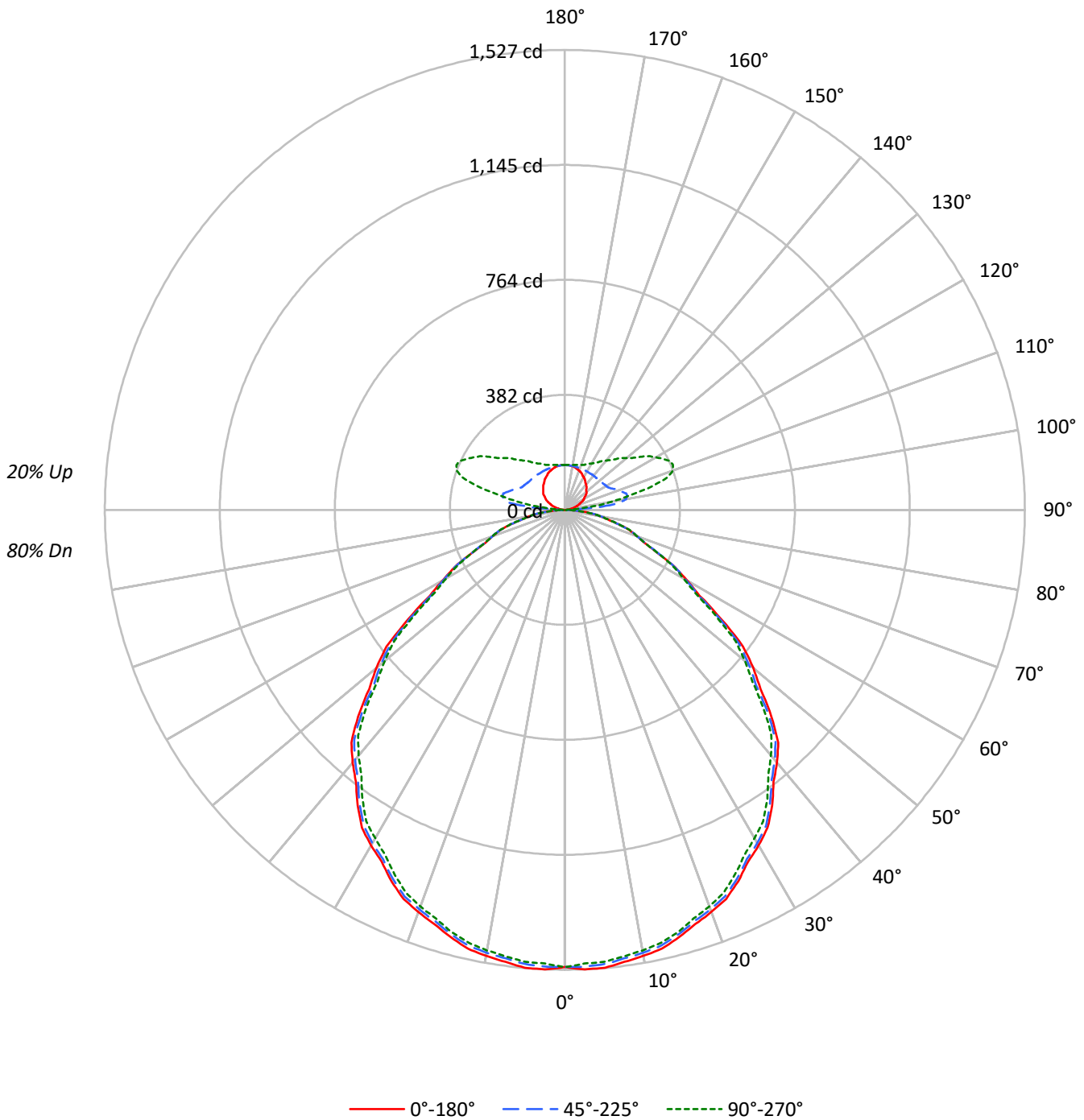
Lumens per Lamp: N/A
Luminaire Lumens: 4761.7 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14005	14005	14005
5°	14132	14023	13951
10°	14087	13989	13915
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13610	13414
35°	13504	13386	13195
40°	13197	13054	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10222	9991	9780
60°	8614	8542	8372
65°	7451	7479	7423
70°	6844	6879	6879
75°	6573	6573	6620
80°	6185	6254	6185
85°	4986	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	3.0
10°-20°	410.7	8.6
20°-30°	619.5	13.0
30°-40°	738.1	15.5
40°-50°	727.7	15.3
50°-60°	556.2	11.7
60°-70°	344.2	7.2
70°-80°	195.5	4.1
80°-90°	60.3	1.3
90°-100°	72.6	1.5
100°-110°	190.9	4.0
110°-120°	198.0	4.2
120°-130°	158.8	3.3
130°-140°	124.6	2.6
140°-150°	95.6	2.0
150°-160°	68.9	1.4
160°-170°	42.1	0.9
170°-180°	14.2	0.3
0°-30°	1173.8	24.7
0°-40°	1911.9	40.2
0°-60°	3195.8	67.1
0°-90°	3795.7	79.7
90°-120°	461.6	9.7
90°-150°	840.6	17.7
90°-180°	966.0	20.3
0°-180°	4761.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1526	1509	1514	1509	1506	145
15°	1468	1453	1459	1454	1451	414
25°	1361	1344	1352	1338	1336	626
35°	1199	1185	1188	1173	1172	748
45°	970	957	953	936	934	743
55°	636	625	621	611	608	569
65°	341	339	343	340	340	346
75°	184	184	184	186	186	195
85°	47	50	52	52	52	55
90°	1	3	8	4	4	3
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.0	1518.0	1518.0	1518.0	1518.0
2.5°	1527.4	1514.2	1518.0	1514.7	1507.6
5°	1525.9	1509.3	1514.1	1508.8	1506.3
7.5°	1514.1	1497.7	1502.6	1497.3	1495.8
10°	1503.7	1488.3	1493.2	1487.9	1485.3
12.5°	1492.1	1475.8	1481.7	1475.4	1472.8
15°	1468.3	1453.0	1459.2	1453.9	1451.4
17.5°	1442.2	1425.8	1432.0	1425.9	1422.6
20°	1421.3	1405.9	1412.1	1402.9	1401.7
22.5°	1398.3	1382.9	1389.1	1376.8	1376.6
25°	1361.1	1344.5	1352.0	1337.6	1336.3
27.5°	1316.9	1301.6	1307.8	1293.1	1291.6
30°	1286.6	1271.3	1277.5	1261.7	1259.1
32.5°	1252.1	1237.8	1242.9	1227.2	1225.7
35°	1199.0	1184.9	1188.5	1172.8	1171.5
37.5°	1138.6	1125.8	1127.9	1110.6	1109.3
40°	1095.7	1082.9	1083.9	1065.6	1064.3
42.5°	1048.6	1035.8	1034.8	1016.4	1015.2
45°	970.2	957.4	953.2	936.1	933.6
47.5°	880.7	868.0	860.1	846.2	844.4
50°	815.9	803.1	796.3	784.4	780.6
52.5°	745.8	733.0	727.2	716.4	712.6
55°	635.5	625.2	621.1	610.6	608.0
57.5°	530.6	523.7	522.5	512.3	511.2
60°	466.8	463.0	462.9	453.7	453.7
62.5°	412.4	409.6	411.6	405.6	404.5
65°	341.3	338.7	342.6	340.0	340.0
67.5°	285.0	285.0	287.4	286.3	286.3
70°	253.7	253.7	255.0	255.0	255.0
72.5°	225.4	224.4	227.8	227.7	226.7
75°	184.4	184.4	184.4	185.7	185.7
77.5°	143.6	143.8	144.9	144.6	143.6
80°	116.4	117.6	117.7	116.4	116.4
82.5°	89.2	90.5	90.5	90.2	89.2
85°	47.1	49.6	52.3	52.3	52.3
87.5°	13.8	18.3	22.4	21.7	20.6
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)