

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: P564262

Luminaire Tested: **SQ4-PR1-100U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564262
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

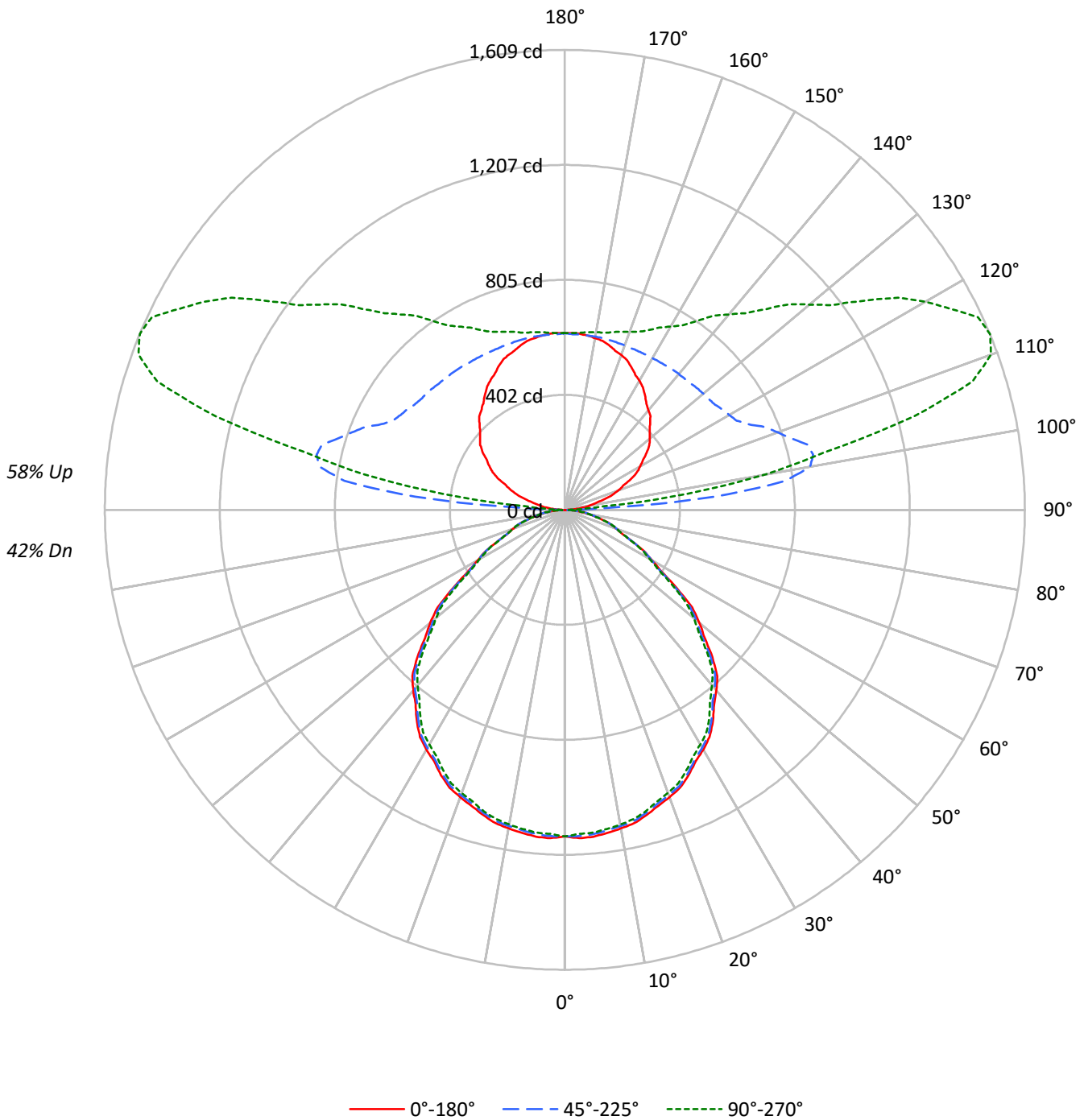
Lumens per Lamp: N/A
Luminaire Lumens: 6873.7 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 49.1
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35	30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	19
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	49	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	25	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10553	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10503	10435	10357
25°	10428	10358	10238
30°	10316	10242	10095
35°	10164	10075	9931
40°	9931	9825	9647
45°	9528	9361	9167
50°	8814	8602	8433
55°	7694	7518	7361
60°	6482	6429	6301
65°	5606	5628	5587
70°	5150	5177	5177
75°	4948	4948	4980
80°	4654	4707	4654
85°	3747	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	1.6
10°-20°	309.1	4.5
20°-30°	466.2	6.8
30°-40°	555.5	8.1
40°-50°	547.7	8.0
50°-60°	418.6	6.1
60°-70°	259.0	3.8
70°-80°	147.1	2.1
80°-90°	46.0	0.7
90°-100°	289.5	4.2
100°-110°	799.1	11.6
110°-120°	824.2	12.0
120°-130°	662.3	9.6
130°-140°	520.5	7.6
140°-150°	399.2	5.8
150°-160°	286.9	4.2
160°-170°	175.5	2.6
170°-180°	59.2	0.9
0°-30°	883.4	12.9
0°-40°	1438.9	20.9
0°-60°	2405.2	35.0
0°-90°	2857.4	41.6
90°-120°	1912.8	27.8
90°-150°	3494.8	50.8
90°-180°	4016.0	58.4
0°-180°	6873.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1148	1136	1140	1136	1134	109
15°	1105	1094	1098	1094	1092	312
25°	1024	1012	1018	1007	1006	471
35°	902	892	894	883	882	563
45°	730	721	717	704	703	559
55°	478	471	467	460	458	429
65°	257	255	258	256	256	260
75°	139	139	139	140	140	147
85°	35	37	39	39	39	41
90°	2	4	8	9	10	4
95°	42	157	525	216	140	45
105°	142	220	879	1342	1264	152
115°	255	308	708	1402	1594	251
125°	350	398	642	1086	1275	312
135°	421	467	624	880	992	326
145°	489	522	616	749	806	306
155°	551	569	611	672	693	254
165°	596	604	614	638	643	168
175°	618	619	615	624	622	59
180°	618	618	618	618	618	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.6	1139.6	1142.5	1140.0	1134.6
5°	1148.4	1135.9	1139.5	1135.6	1133.6
7.5°	1139.5	1127.2	1130.9	1126.9	1125.8
10°	1131.7	1120.1	1123.8	1119.8	1117.9
12.5°	1123.0	1110.7	1115.1	1110.4	1108.4
15°	1105.1	1093.6	1098.2	1094.2	1092.3
17.5°	1085.4	1073.1	1077.7	1073.2	1070.7
20°	1069.7	1058.1	1062.8	1055.9	1054.9
22.5°	1052.4	1040.8	1045.5	1036.2	1036.0
25°	1024.4	1011.9	1017.5	1006.7	1005.7
27.5°	991.1	979.6	984.3	973.2	972.1
30°	968.3	956.8	961.4	949.6	947.6
32.5°	942.3	931.6	935.4	923.6	922.5
35°	902.4	891.8	894.5	882.7	881.7
37.5°	856.9	847.3	848.9	835.8	834.9
40°	824.6	815.0	815.8	802.0	801.0
42.5°	789.2	779.6	778.8	765.0	764.0
45°	730.2	720.6	717.4	704.5	702.6
47.5°	662.9	653.2	647.3	636.9	635.5
50°	614.1	604.4	599.3	590.4	587.5
52.5°	561.3	551.7	547.3	539.2	536.3
55°	478.3	470.6	467.4	459.5	457.6
57.5°	399.3	394.1	393.2	385.5	384.8
60°	351.3	348.4	348.4	341.5	341.5
62.5°	310.4	308.3	309.8	305.2	304.5
65°	256.8	254.9	257.8	255.9	255.9
67.5°	214.5	214.5	216.3	215.5	215.5
70°	190.9	190.9	191.9	191.9	191.9
72.5°	169.7	168.9	171.4	171.4	170.6
75°	138.8	138.8	138.8	139.7	139.7
77.5°	108.0	108.2	109.0	108.8	108.0
80°	87.6	88.5	88.6	87.6	87.6
82.5°	67.1	68.1	68.1	67.9	67.1
85°	35.4	37.4	39.4	39.4	39.4
87.5°	10.6	14.1	17.3	17.5	16.9
90°	2.0	3.9	7.9	8.9	9.9
92.5°	17.8	73.9	132.1	48.2	37.6
95°	42.5	156.6	525.2	215.9	140.4
97.5°	70.4	175.4	778.0	599.0	433.8
100°	91.0	186.7	871.3	877.5	713.1
102.5°	110.8	199.5	889.5	1084.2	928.3
105°	142.4	219.8	879.2	1342.3	1264.0
107.5°	176.0	244.9	830.2	1466.8	1495.4
110°	199.8	261.7	792.2	1493.5	1586.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.1	280.7	756.6	1472.4	1609.3
115°	255.2	308.4	708.1	1401.9	1594.3
117.5°	284.8	337.8	676.3	1302.6	1521.5
120°	304.6	356.8	663.6	1235.3	1455.8
122.5°	323.6	373.5	653.3	1172.6	1381.5
125°	350.1	398.5	641.9	1086.3	1274.8
127.5°	372.7	421.0	635.1	1013.3	1175.9
130°	387.7	436.0	632.0	968.6	1116.6
132.5°	401.9	448.0	628.8	931.1	1065.2
135°	421.3	466.8	624.1	879.8	992.0
137.5°	443.1	484.5	621.7	836.7	932.4
140°	454.9	495.6	620.1	808.0	892.1
142.5°	468.4	505.9	618.5	782.4	856.5
145°	488.6	522.4	616.2	749.0	806.0
147.5°	508.0	537.5	614.0	720.8	765.1
150°	522.2	546.4	613.2	704.0	739.8
152.5°	533.3	555.9	612.4	689.6	719.2
155°	550.9	569.3	611.2	672.0	693.3
157.5°	567.1	581.2	611.4	659.2	673.7
160°	576.6	589.2	612.2	652.0	662.6
162.5°	584.5	595.5	613.0	645.6	653.9
165°	596.4	604.1	614.2	638.0	642.9
167.5°	605.5	610.1	615.2	633.4	634.9
170°	610.2	614.1	615.2	631.0	631.0
172.5°	614.2	616.5	615.2	627.8	627.0
175°	618.1	619.1	615.2	624.0	622.1
177.5°	619.7	618.9	615.0	620.5	618.9
180°	618.1	618.1	618.1	618.1	618.1

(END OF REPORT)