

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: P561894

Luminaire Tested: **SQ4-PR1-075U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561894
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-075U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

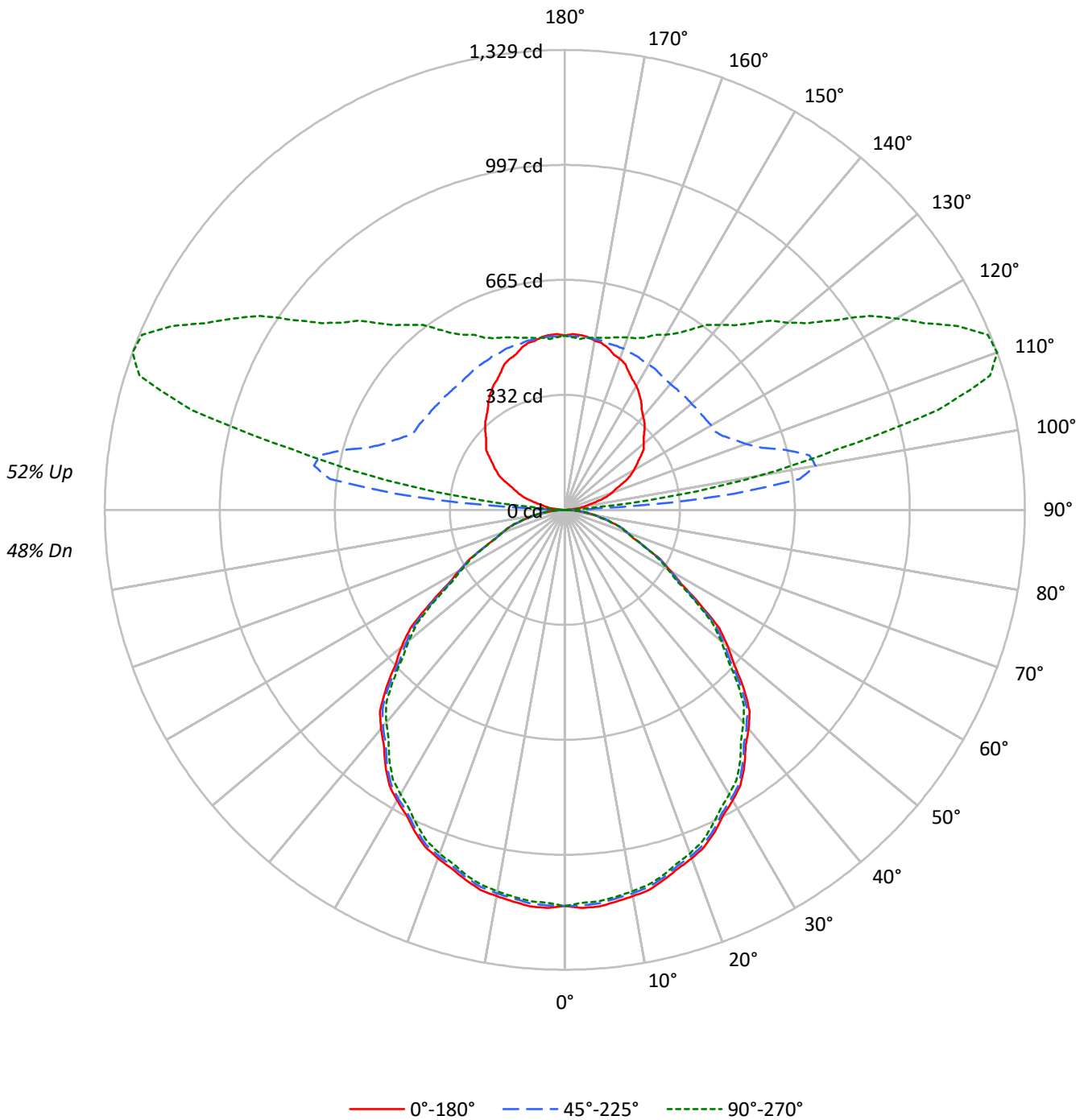
Lumens per Lamp: N/A
Luminaire Lumens: 5986.8 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.4
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39				35	
3	81	72	65	59	75	67	60	55	56	52	48	47	44	41	38	36	34				30	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29				26	
5	68	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26				22	
6	63	51	43	38	58	48	41	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	28	34	28	24	28	24	21	24	20	18				16	
9	50	38	31	26	46	36	29	25	31	26	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°	10558	10558	10558
5°	10653	10571	10516
10°	10619	10546	10490
15°	10573	10507	10450
20°	10519	10452	10375
25°	10446	10375	10255
30°	10333	10259	10112
35°	10181	10092	9948
40°	9948	9841	9664
45°	9543	9376	9183
50°	8829	8616	8447
55°	7705	7531	7372
60°	6493	6438	6311
65°	5617	5639	5595
70°	5158	5185	5185
75°	4955	4955	4991
80°	4660	4713	4660
85°	3758	4171	4171



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	1.8
10°-20°	309.6	5.2
20°-30°	467.0	7.8
30°-40°	556.4	9.3
40°-50°	548.6	9.2
50°-60°	419.3	7.0
60°-70°	259.5	4.3
70°-80°	147.4	2.5
80°-90°	44.8	0.7
90°-100°	229.3	3.8
100°-110°	652.5	10.9
110°-120°	625.2	10.4
120°-130°	494.8	8.3
130°-140°	397.1	6.6
140°-150°	310.9	5.2
150°-160°	227.5	3.8
160°-170°	140.9	2.4
170°-180°	47.8	0.8
0°-30°	884.9	14.8
0°-40°	1441.3	24.1
0°-60°	2409.2	40.2
0°-90°	2860.8	47.8
90°-120°	1507.0	25.2
90°-150°	2709.8	45.3
90°-180°	3126.0	52.2
0°-180°	5986.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1150	1138	1141	1137	1136	109
15°	1107	1095	1100	1096	1094	312
25°	1026	1014	1019	1008	1007	472
35°	904	893	896	884	883	564
45°	731	722	719	706	704	560
55°	479	471	468	460	458	429
65°	257	255	258	256	256	261
75°	139	139	139	140	140	147
85°	36	37	39	39	39	41
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.4	1144.4	1144.4	1144.4	1144.4
2.5°	1151.5	1141.5	1144.4	1141.9	1136.5
5°	1150.3	1137.8	1141.4	1137.4	1135.5
7.5°	1141.4	1129.1	1132.8	1128.8	1127.6
10°	1133.5	1122.0	1125.7	1121.7	1119.7
12.5°	1124.9	1112.5	1117.0	1112.2	1110.3
15°	1106.9	1095.4	1100.0	1096.0	1094.1
17.5°	1087.2	1074.9	1079.5	1074.9	1072.4
20°	1071.4	1059.9	1064.5	1057.6	1056.7
22.5°	1054.1	1042.5	1047.2	1037.9	1037.7
25°	1026.1	1013.6	1019.2	1008.3	1007.4
27.5°	992.8	981.2	985.9	974.8	973.7
30°	969.9	958.4	963.0	951.1	949.2
32.5°	943.9	933.1	937.0	925.1	924.0
35°	903.9	893.3	896.0	884.1	883.2
37.5°	858.3	848.7	850.3	837.2	836.3
40°	826.0	816.4	817.1	803.3	802.4
42.5°	790.5	780.9	780.1	766.3	765.3
45°	731.4	721.7	718.6	705.7	703.8
47.5°	664.0	654.3	648.4	637.9	636.6
50°	615.1	605.4	600.3	591.3	588.5
52.5°	562.2	552.6	548.2	540.1	537.2
55°	479.0	471.3	468.2	460.3	458.3
57.5°	400.0	394.8	393.9	386.2	385.4
60°	351.9	349.0	348.9	342.0	342.0
62.5°	310.9	308.8	310.3	305.7	305.0
65°	257.3	255.3	258.3	256.3	256.3
67.5°	214.9	214.9	216.7	215.9	215.9
70°	191.2	191.2	192.2	192.2	192.2
72.5°	169.9	169.2	171.7	171.7	170.9
75°	139.0	139.0	139.0	140.0	140.0
77.5°	108.2	108.4	109.2	109.0	108.2
80°	87.7	88.7	88.7	87.7	87.7
82.5°	67.2	68.2	68.2	68.0	67.2
85°	35.5	37.4	39.4	39.4	39.4
87.5°	10.3	13.3	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)