

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: P563238

Luminaire Tested: **SQ4-PP3-025U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563238
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-930-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

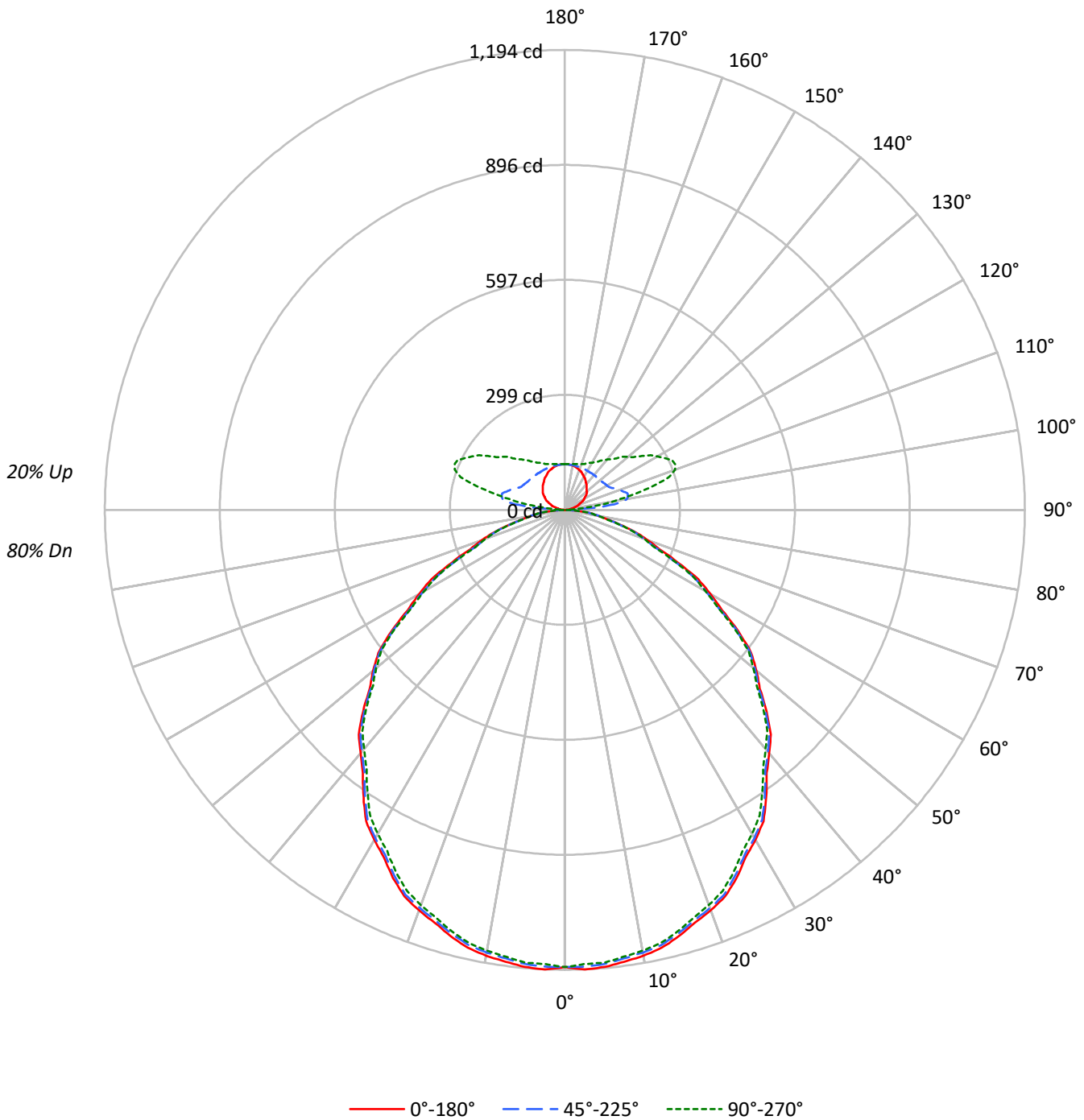
Lumens per Lamp: N/A
Luminaire Lumens: 3807.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	10951	10951	10951
5°	11031	10964	10925
10°	11013	10934	10885
15°	10940	10879	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10540	10484	10351
35°	10263	10193	10065
40°	9935	9872	9759
45°	9663	9595	9501
50°	9317	9257	9168
55°	8834	8718	8651
60°	8043	7813	7774
65°	7084	6789	6768
70°	6118	5864	5864
75°	5265	5190	5119
80°	4644	4697	4585
85°	3631	3959	3959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	2.9
10°-20°	320.5	8.4
20°-30°	480.0	12.6
30°-40°	563.0	14.8
40°-50°	564.8	14.8
50°-60°	481.8	12.7
60°-70°	314.2	8.3
70°-80°	157.6	4.1
80°-90°	44.2	1.2
90°-100°	57.8	1.5
100°-110°	151.9	4.0
110°-120°	157.6	4.1
120°-130°	126.4	3.3
130°-140°	99.2	2.6
140°-150°	76.1	2.0
150°-160°	54.8	1.4
160°-170°	33.5	0.9
170°-180°	11.3	0.3
0°-30°	912.7	24.0
0°-40°	1475.7	38.8
0°-60°	2522.3	66.3
0°-90°	3038.4	79.8
90°-120°	367.3	9.6
90°-150°	669.0	17.6
90°-180°	769.0	20.2
0°-180°	3807.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1191	1180	1184	1180	1180	113
15°	1145	1134	1139	1135	1133	323
25°	1055	1043	1048	1038	1037	485
35°	911	902	905	895	894	569
45°	741	736	735	728	728	570
55°	549	547	542	539	538	488
65°	324	318	311	309	310	324
75°	148	148	146	145	144	160
85°	34	37	37	37	37	40
90°	1	2	6	3	3	2
95°	8	30	100	51	35	8
105°	27	42	168	255	238	29
115°	49	59	135	268	306	48
125°	68	76	122	207	244	60
135°	81	89	119	167	189	62
145°	94	99	117	142	154	59
155°	106	109	117	129	132	49
165°	114	116	117	122	123	32
175°	119	119	118	119	119	11
180°	119	119	119	119	119	

TEST NUMBER: P563238

CATALOG NUMBER: SQ4-PP3-025U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1194.4	1184.6	1186.9	1185.1	1180.2
5°	1191.1	1179.9	1183.8	1179.6	1179.6
7.5°	1182.9	1170.7	1174.6	1170.5	1170.3
10°	1175.5	1163.2	1167.1	1162.9	1161.9
12.5°	1164.6	1152.4	1157.1	1152.1	1151.9
15°	1145.3	1134.1	1139.0	1134.8	1132.8
17.5°	1123.4	1111.2	1117.2	1111.4	1110.5
20°	1106.8	1094.6	1100.6	1092.2	1092.2
22.5°	1086.8	1074.6	1081.4	1070.6	1070.6
25°	1054.8	1042.6	1047.5	1038.1	1037.1
27.5°	1016.7	1004.7	1009.8	999.2	999.0
30°	989.3	978.1	984.1	972.6	971.6
32.5°	959.3	948.9	953.3	941.8	940.8
35°	911.2	902.1	905.0	894.6	893.6
37.5°	860.7	851.3	854.6	845.7	845.3
40°	824.9	818.8	819.7	812.4	810.3
42.5°	791.6	784.7	785.6	778.3	777.9
45°	740.6	735.6	735.4	728.2	728.2
47.5°	686.5	682.7	681.6	675.5	675.3
50°	649.1	646.0	644.9	639.7	638.7
52.5°	610.0	608.6	605.0	600.6	600.4
55°	549.2	547.2	542.0	538.8	537.8
57.5°	483.3	479.2	473.3	468.7	469.6
60°	435.9	431.8	423.4	421.3	421.3
62.5°	390.1	385.2	376.8	373.9	375.5
65°	324.5	318.4	311.0	309.0	310.0
67.5°	265.0	259.6	251.5	251.5	250.7
70°	226.8	223.7	217.4	217.4	217.4
72.5°	192.6	191.2	186.6	186.6	185.8
75°	147.7	147.7	145.6	144.6	143.6
77.5°	110.7	111.1	110.1	109.0	107.1
80°	87.4	89.4	88.4	87.4	86.3
82.5°	65.7	67.8	67.6	65.7	65.5
85°	34.3	37.4	37.4	37.4	37.4
87.5°	9.3	12.9	14.5	13.9	14.8
90°	0.8	2.2	6.1	3.0	3.0
92.5°	3.2	15.4	34.1	15.1	9.7
95°	7.6	29.9	99.6	51.3	35.0
97.5°	13.2	32.8	149.0	118.5	87.3
100°	17.5	35.3	164.2	166.4	129.2
102.5°	21.1	37.8	168.5	207.3	175.4
105°	27.4	41.5	168.0	255.0	237.9
107.5°	33.8	46.8	158.4	279.8	284.0
110°	38.0	49.9	150.5	286.2	304.1

TEST NUMBER: P563238

CATALOG NUMBER: SQ4-PP3-025U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	42.3	53.6	143.2	282.2	309.5
115°	48.7	59.1	134.6	268.4	306.4
117.5°	54.9	64.4	128.6	249.4	291.5
120°	58.5	67.5	126.2	236.6	277.5
122.5°	62.2	71.1	124.4	223.8	264.1
125°	67.7	75.8	122.4	206.9	244.0
127.5°	72.1	80.4	120.7	193.2	224.6
130°	74.5	83.4	120.1	184.6	213.6
132.5°	76.9	85.8	119.5	177.3	203.3
135°	80.6	88.8	118.6	167.0	189.3
137.5°	84.4	92.4	118.4	159.3	177.6
140°	87.4	94.9	117.8	153.2	170.3
142.5°	89.9	96.7	117.8	148.9	163.6
145°	93.5	99.4	117.1	142.4	153.6
147.5°	97.2	102.9	117.1	137.0	146.3
150°	99.6	104.8	117.1	134.0	141.4
152.5°	102.0	106.0	117.1	131.5	137.1
155°	105.7	108.6	117.1	128.6	132.3
157.5°	108.4	111.2	117.1	125.9	128.6
160°	110.2	112.5	117.1	124.7	126.2
162.5°	112.0	113.7	117.1	123.5	125.0
165°	114.0	115.5	117.1	121.7	123.1
167.5°	115.9	116.6	117.8	120.9	121.5
170°	117.1	117.8	117.8	120.9	120.9
172.5°	117.7	117.8	117.8	120.2	119.7
175°	118.6	118.6	117.8	119.3	119.3
177.5°	118.6	118.6	118.0	119.2	118.6
180°	118.6	118.6	118.6	118.6	118.6

(END OF REPORT)