

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: P563178

Luminaire Tested: **SQ4-PP3-025U-050D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563178
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-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

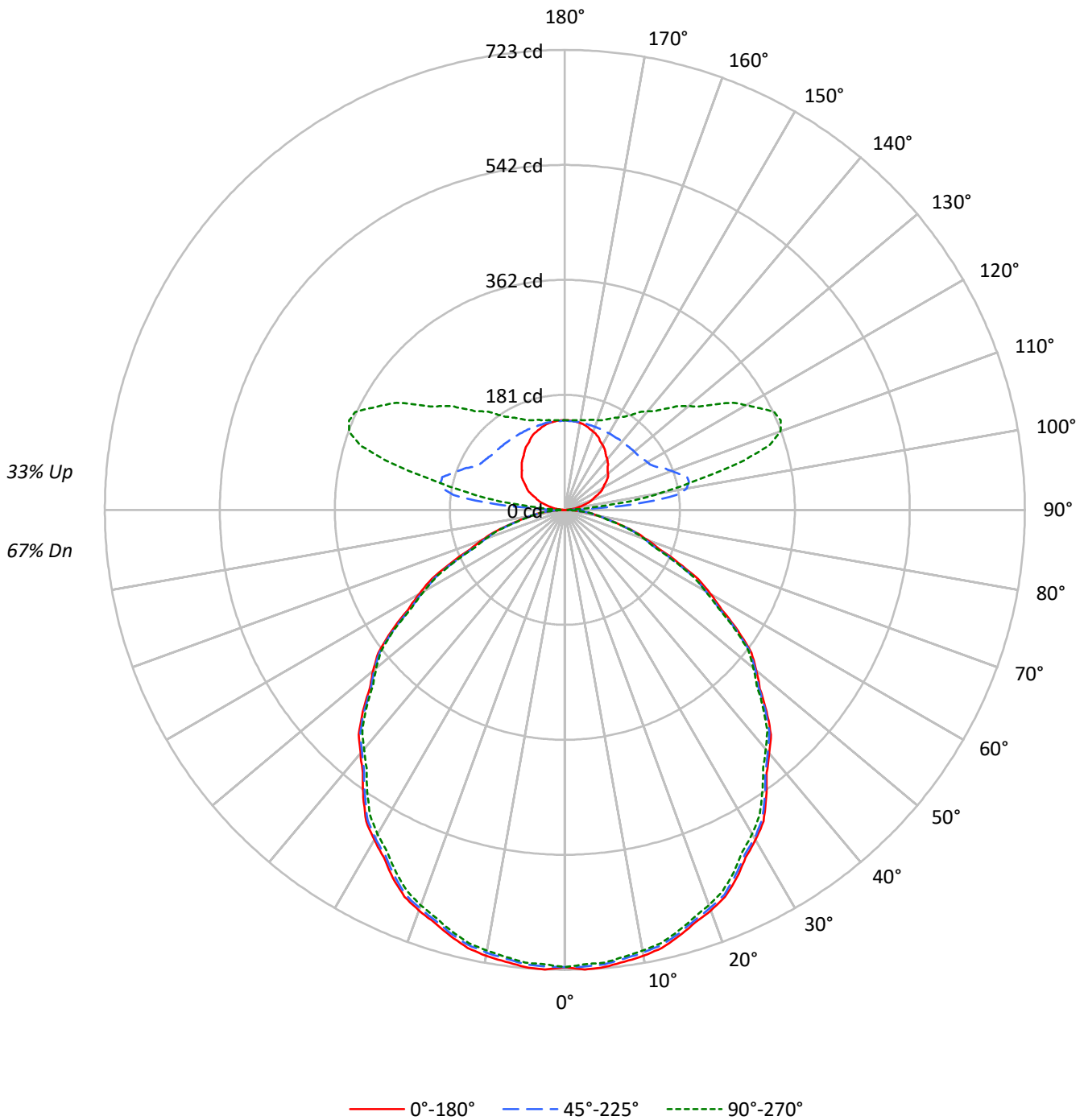
Lumens per Lamp: N/A
Luminaire Lumens: 2752.5 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57				
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48				
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41				
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35				
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31				
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27				
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21				
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6594
15°	6626	6590	6553
20°	6582	6545	6496
25°	6504	6459	6395
30°	6384	6349	6270
35°	6216	6173	6096
40°	6017	5980	5911
45°	5853	5811	5754
50°	5644	5606	5553
55°	5352	5281	5239
60°	4871	4731	4709
65°	4292	4113	4100
70°	3706	3553	3553
75°	3190	3144	3098
80°	2811	2848	2779
85°	2202	2403	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	2.5
10°-20°	194.1	7.1
20°-30°	290.7	10.6
30°-40°	341.0	12.4
40°-50°	342.1	12.4
50°-60°	291.8	10.6
60°-70°	190.3	6.9
70°-80°	95.5	3.5
80°-90°	27.2	1.0
90°-100°	68.6	2.5
100°-110°	180.2	6.5
110°-120°	186.9	6.8
120°-130°	149.9	5.4
130°-140°	117.6	4.3
140°-150°	90.3	3.3
150°-160°	65.0	2.4
160°-170°	39.8	1.4
170°-180°	13.4	0.5
0°-30°	552.8	20.1
0°-40°	893.8	32.5
0°-60°	1527.7	55.5
0°-90°	1840.7	66.9
90°-120°	435.7	15.8
90°-150°	793.5	28.8
90°-180°	912.0	33.1
0°-180°	2752.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	721	715	717	714	714	69
15°	694	687	690	687	686	196
25°	639	632	634	629	628	294
35°	552	546	548	542	541	345
45°	449	446	445	441	441	345
55°	333	331	328	326	326	296
65°	197	193	188	187	188	196
75°	90	90	88	88	87	97
85°	21	23	23	23	23	24
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	

TEST NUMBER: P563178

CATALOG NUMBER: SQ4-PP3-025U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718.9	718.9	718.9	718.9	718.9
2.5°	723.4	717.5	718.9	717.8	714.9
5°	721.4	714.6	717.0	714.5	714.5
7.5°	716.5	709.1	711.5	708.9	708.8
10°	712.0	704.6	706.9	704.4	703.8
12.5°	705.4	698.0	700.9	697.8	697.7
15°	693.7	686.9	689.9	687.4	686.1
17.5°	680.5	673.1	676.7	673.1	672.6
20°	670.4	663.0	666.6	661.6	661.6
22.5°	658.3	650.9	655.0	648.5	648.5
25°	638.9	631.5	634.5	628.8	628.2
27.5°	615.8	608.5	611.7	605.2	605.1
30°	599.2	592.4	596.0	589.1	588.5
32.5°	581.0	574.8	577.4	570.4	569.8
35°	551.9	546.4	548.1	541.8	541.2
37.5°	521.3	515.6	517.7	512.2	512.0
40°	499.6	495.9	496.5	492.0	490.8
42.5°	479.5	475.3	475.8	471.4	471.2
45°	448.6	445.5	445.4	441.0	441.0
47.5°	415.8	413.5	412.8	409.2	409.0
50°	393.2	391.3	390.6	387.5	386.9
52.5°	369.5	368.6	366.4	363.8	363.7
55°	332.7	331.4	328.3	326.4	325.7
57.5°	292.7	290.3	286.7	283.9	284.4
60°	264.0	261.5	256.4	255.2	255.2
62.5°	236.3	233.3	228.2	226.5	227.5
65°	196.6	192.9	188.4	187.1	187.8
67.5°	160.5	157.2	152.3	152.3	151.8
70°	137.4	135.5	131.7	131.7	131.7
72.5°	116.7	115.8	113.0	113.0	112.5
75°	89.5	89.5	88.2	87.6	86.9
77.5°	67.0	67.3	66.7	66.0	64.9
80°	52.9	54.2	53.6	52.9	52.3
82.5°	39.8	41.1	41.0	39.8	39.7
85°	20.8	22.6	22.7	22.7	22.7
87.5°	5.7	8.0	9.5	8.8	9.3
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

TEST NUMBER: P563178

CATALOG NUMBER: SQ4-PP3-025U-050D-830-1D-UNV-STD-W-4

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)