

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: P563214

Luminaire Tested: **SQ4-PP3-025U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563214
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-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

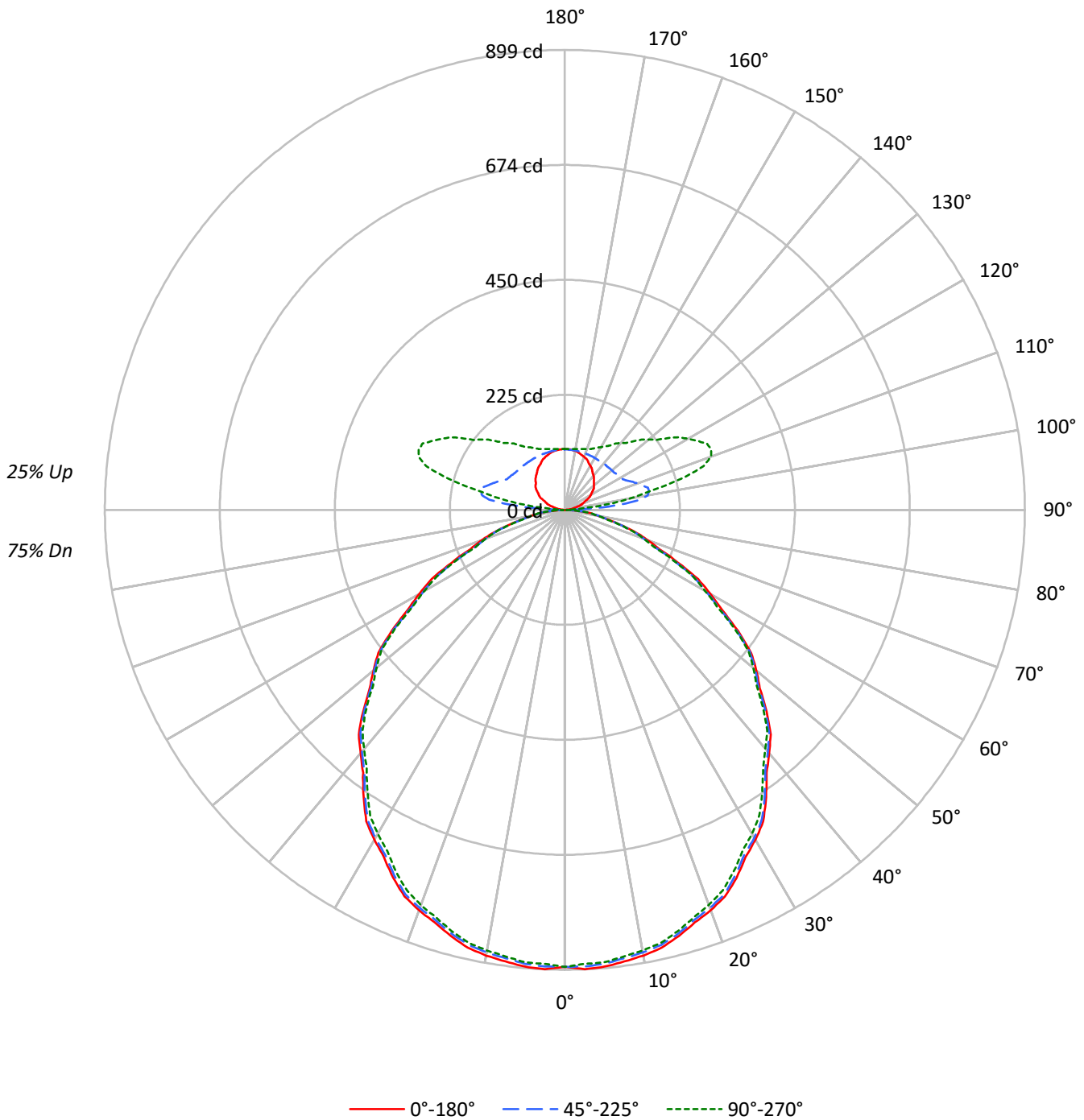
Lumens per Lamp: N/A
Luminaire Lumens: 3055.6 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75		
1	104	99	95	92	98	95	91	88	86	83	81	78	76	74	70	69	67	64		
2	95	87	81	76	90	83	77	73	76	71	67	69	65	62	62	60	57	54		
3	87	77	69	63	82	73	67	61	67	61	57	61	57	53	55	52	49	46		
4	79	68	60	54	75	65	58	52	60	54	49	54	49	45	50	46	42	39		
5	73	61	53	46	69	58	51	45	54	47	42	49	44	40	45	40	37	34		
6	67	55	46	40	64	53	45	39	48	42	37	44	39	35	41	36	33	30		
7	62	50	41	36	59	48	40	35	44	37	33	40	35	31	37	33	29	27		
8	58	45	37	32	55	44	36	31	40	34	29	37	32	28	34	29	26	24		
9	54	41	34	28	51	40	33	28	37	31	26	34	29	25	32	27	24	22		
10	51	38	31	26	48	37	30	25	34	28	24	32	26	23	29	25	21	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8242	8242	8242
5°	8302	8251	8222
10°	8288	8229	8193
15°	8234	8189	8144
20°	8179	8133	8071
25°	8081	8026	7945
30°	7932	7890	7790
35°	7724	7671	7574
40°	7477	7430	7346
45°	7273	7222	7150
50°	7012	6967	6900
55°	6650	6561	6511
60°	6052	5879	5851
65°	5333	5111	5093
70°	4605	4413	4413
75°	3964	3907	3850
80°	3496	3533	3454
85°	2731	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	2.8
10°-20°	241.2	7.9
20°-30°	361.3	11.8
30°-40°	423.7	13.9
40°-50°	425.1	13.9
50°-60°	362.6	11.9
60°-70°	236.5	7.7
70°-80°	118.6	3.9
80°-90°	33.5	1.1
90°-100°	57.8	1.9
100°-110°	151.9	5.0
110°-120°	157.6	5.2
120°-130°	126.4	4.1
130°-140°	99.2	3.2
140°-150°	76.1	2.5
150°-160°	54.8	1.8
160°-170°	33.5	1.1
170°-180°	11.3	0.4
0°-30°	686.9	22.5
0°-40°	1110.6	36.3
0°-60°	1898.3	62.1
0°-90°	2286.9	74.8
90°-120°	367.3	12.0
90°-150°	669.0	21.9
90°-180°	769.0	25.2
0°-180°	3055.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	896	888	891	888	888	85
15°	862	854	857	854	853	243
25°	794	785	788	781	780	365
35°	686	679	681	673	672	428
45°	557	554	554	548	548	429
55°	413	412	408	406	405	367
65°	244	240	234	232	233	244
75°	111	111	110	109	108	121
85°	26	28	28	28	28	30
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.3	893.3	893.3	893.3	893.3
2.5°	898.9	891.6	893.3	891.9	888.3
5°	896.4	888.0	890.9	887.8	887.8
7.5°	890.3	881.1	884.0	880.9	880.7
10°	884.7	875.5	878.4	875.3	874.5
12.5°	876.5	867.3	870.9	867.1	867.0
15°	862.0	853.5	857.3	854.1	852.6
17.5°	845.5	836.3	840.8	836.4	835.8
20°	833.0	823.8	828.3	822.0	822.0
22.5°	818.0	808.8	813.9	805.7	805.7
25°	793.8	784.7	788.4	781.3	780.5
27.5°	765.2	756.2	760.0	752.0	751.9
30°	744.5	736.1	740.6	732.0	731.2
32.5°	722.0	714.2	717.4	708.8	708.0
35°	685.8	678.9	681.1	673.3	672.5
37.5°	647.8	640.7	643.2	636.5	636.2
40°	620.8	616.2	616.9	611.4	609.9
42.5°	595.8	590.6	591.2	585.7	585.4
45°	557.4	553.6	553.5	548.0	548.0
47.5°	516.7	513.8	512.9	508.4	508.3
50°	488.5	486.2	485.4	481.5	480.7
52.5°	459.1	458.0	455.3	452.0	451.9
55°	413.4	411.8	407.9	405.5	404.8
57.5°	363.7	360.7	356.2	352.8	353.4
60°	328.0	325.0	318.6	317.1	317.1
62.5°	293.6	289.9	283.6	281.4	282.6
65°	244.3	239.7	234.1	232.5	233.3
67.5°	199.5	195.3	189.3	189.3	188.7
70°	170.7	168.4	163.6	163.6	163.6
72.5°	145.0	143.9	140.4	140.4	139.8
75°	111.2	111.2	109.6	108.8	108.0
77.5°	83.3	83.6	82.8	82.0	80.6
80°	65.8	67.3	66.5	65.7	65.0
82.5°	49.5	51.0	50.9	49.5	49.3
85°	25.8	28.1	28.2	28.2	28.2
87.5°	7.0	9.8	11.2	10.6	11.3
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

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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)