

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: P563310

Luminaire Tested: **SQ4-PP3-050U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563310
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PP3-050U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

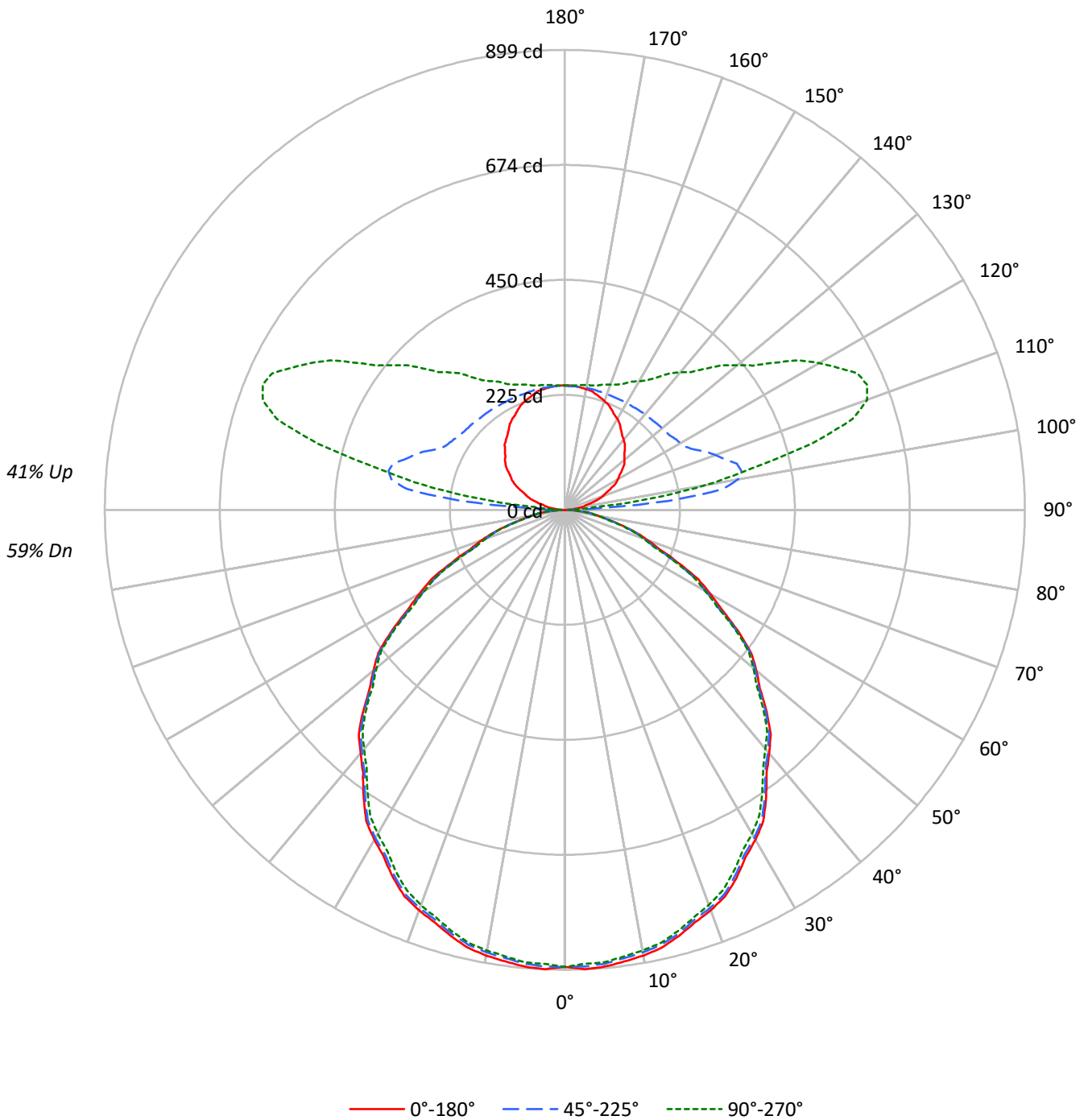
Lumens per Lamp: N/A
Luminaire Lumens: 3872.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

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	2.2
10°-20°	241.2	6.2
20°-30°	361.3	9.3
30°-40°	423.7	10.9
40°-50°	425.1	11.0
50°-60°	362.6	9.4
60°-70°	236.5	6.1
70°-80°	118.6	3.1
80°-90°	33.8	0.9
90°-100°	116.5	3.0
100°-110°	316.6	8.2
110°-120°	325.5	8.4
120°-130°	260.2	6.7
130°-140°	204.5	5.3
140°-150°	156.8	4.0
150°-160°	112.8	2.9
160°-170°	69.0	1.8
170°-180°	23.2	0.6
0°-30°	686.9	17.7
0°-40°	1110.6	28.7
0°-60°	1898.3	49.0
0°-90°	2287.2	59.1
90°-120°	758.6	19.6
90°-150°	1380.1	35.6
90°-180°	1585.0	40.9
0°-180°	3872.3	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	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CATALOG NUMBER: SQ4-PP3-050U-075D-930-1D-UNV-STD-W-4

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	10.0	11.1	11.4	12.1
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4

TEST NUMBER: P563310

CATALOG NUMBER: SQ4-PP3-050U-075D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>87.0</i>	110.9	298.0	582.7	639.0
115°	<i>99.9</i>	121.3	278.7	554.4	631.5
117.5°	<i>112.1</i>	132.5	266.3	514.4	601.2
120°	<i>120.2</i>	140.1	260.7	487.5	573.7
122.5°	<i>127.1</i>	146.9	257.0	460.6	543.8
125°	<i>137.4</i>	156.5	252.1	424.8	501.1
127.5°	<i>146.6</i>	165.5	249.5	397.7	463.2
130°	<i>152.2</i>	170.5	248.2	380.7	439.5
132.5°	<i>157.8</i>	176.2	247.0	366.2	418.2
135°	<i>165.5</i>	183.8	245.1	346.0	390.3
137.5°	<i>173.8</i>	190.4	244.2	328.2	365.5
140°	<i>178.8</i>	194.8	243.5	316.9	350.5
142.5°	<i>183.8</i>	198.6	242.9	308.0	336.1
145°	<i>191.2</i>	205.0	242.0	294.0	316.1
147.5°	<i>199.7</i>	211.4	241.2	283.0	300.4
150°	<i>205.3</i>	215.2	241.2	276.6	290.4
152.5°	<i>209.7</i>	218.4	240.6	271.0	282.3
155°	<i>216.2</i>	223.9	240.4	264.0	271.6
157.5°	<i>222.6</i>	228.6	240.4	259.3	265.1
160°	<i>226.4</i>	231.7	240.4	256.1	260.7
162.5°	<i>230.1</i>	234.2	241.0	253.6	257.0
165°	<i>234.2</i>	237.2	241.2	251.4	252.1
167.5°	<i>238.4</i>	239.9	242.0	248.7	249.3
170°	<i>239.6</i>	241.2	242.0	247.4	247.4
172.5°	<i>240.9</i>	241.8	242.0	246.2	246.2
175°	<i>242.8</i>	243.5	242.0	245.1	244.3
177.5°	<i>243.4</i>	243.4	241.5	244.0	242.8
180°	<i>242.8</i>	242.8	242.8	242.8	242.8

(END OF REPORT)