

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: P564654

Luminaire Tested: **SQ4-PW1-050U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564654
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

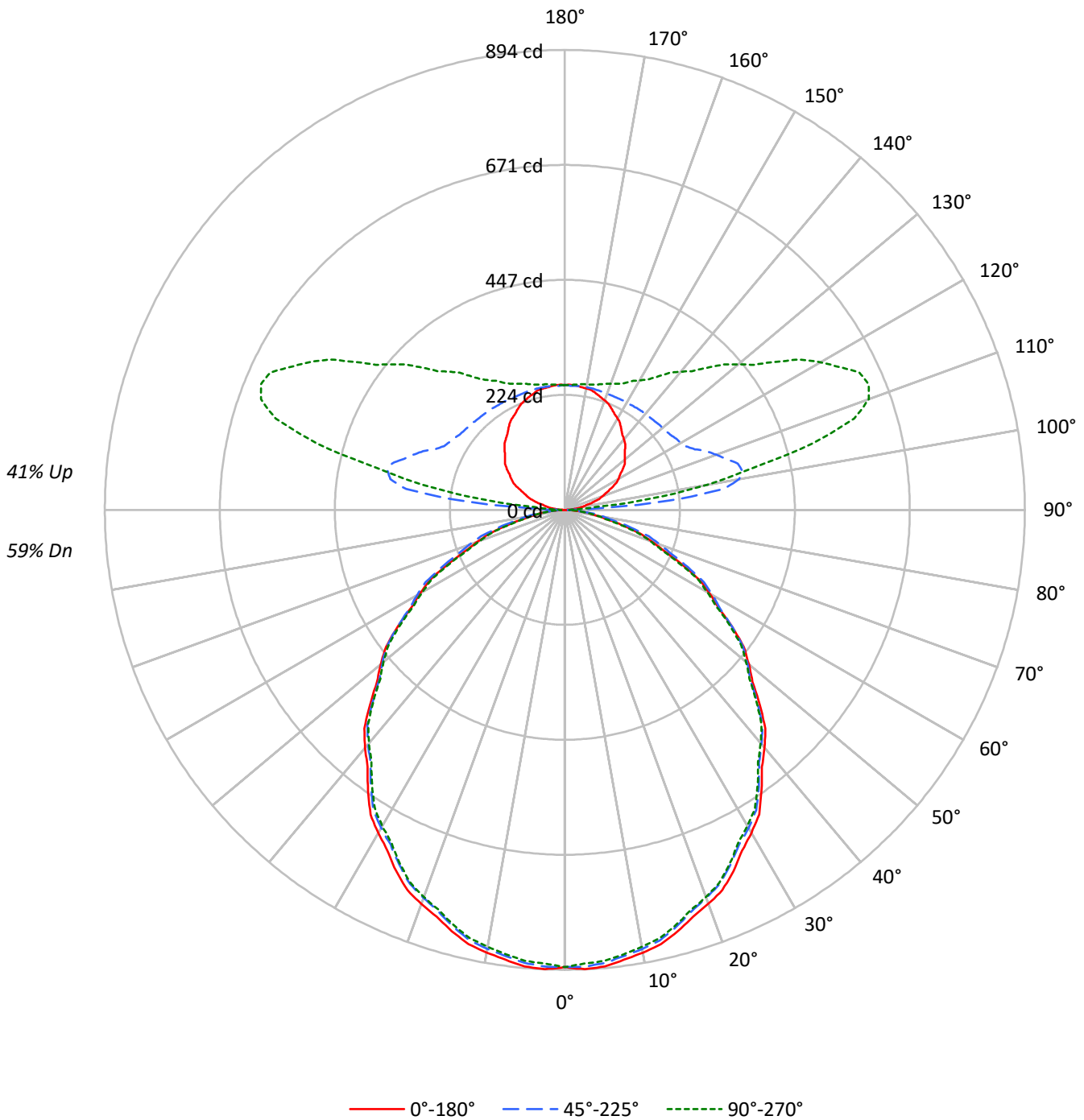
Lumens per Lamp: N/A
Luminaire Lumens: 3847.3 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8200	8200	8200
5°	8253	8188	8152
10°	8187	8122	8078
15°	8101	8011	7980
20°	8004	7880	7865
25°	7892	7748	7725
30°	7725	7609	7559
35°	7506	7400	7356
40°	7271	7159	7130
45°	6988	6897	6866
50°	6699	6643	6598
55°	6386	6386	6286
60°	5997	6111	5896
65°	5488	5761	5351
70°	4837	5303	4710
75°	4132	4745	4021
80°	3204	3995	3246
85°	2075	3070	2731



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	2.2
10°-20°	236.3	6.1
20°-30°	350.5	9.1
30°-40°	410.1	10.7
40°-50°	408.3	10.6
50°-60°	352.6	9.2
60°-70°	253.8	6.6
70°-80°	133.1	3.5
80°-90°	33.9	0.9
90°-100°	116.5	3.0
100°-110°	316.6	8.2
110°-120°	325.5	8.5
120°-130°	260.2	6.8
130°-140°	204.5	5.3
140°-150°	156.8	4.1
150°-160°	112.8	2.9
160°-170°	69.0	1.8
170°-180°	23.2	0.6
0°-30°	670.5	17.4
0°-40°	1080.6	28.1
0°-60°	1841.4	47.9
0°-90°	2262.2	58.8
90°-120°	758.6	19.7
90°-150°	1380.1	35.9
90°-180°	1585.0	41.2
0°-180°	3847.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	891	881	884	882	880	84
15°	848	837	839	837	836	239
25°	775	762	761	756	759	356
35°	666	657	657	651	653	417
45°	536	531	529	527	526	413
55°	397	396	397	392	391	354
65°	251	259	264	254	245	249
75°	116	127	133	124	113	124
85°	20	26	29	27	26	26
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.8	888.8	888.8	888.8	888.8
2.5°	893.8	886.4	888.8	886.8	882.5
5°	891.1	881.2	884.1	881.7	880.2
7.5°	882.1	872.9	875.0	872.5	871.6
10°	873.9	864.7	866.9	863.7	862.2
12.5°	864.5	854.7	856.8	853.7	852.8
15°	848.1	837.3	838.7	837.1	835.5
17.5°	829.0	818.1	818.3	815.8	815.5
20°	815.2	803.7	802.6	799.6	801.1
22.5°	800.1	788.0	787.0	782.7	784.8
25°	775.2	762.2	761.1	756.5	758.8
27.5°	746.4	733.6	733.6	727.1	729.5
30°	725.1	712.9	714.2	706.4	709.5
32.5°	702.6	691.5	692.2	684.5	687.5
35°	666.4	657.2	657.0	650.8	653.1
37.5°	629.4	621.3	620.0	616.4	617.1
40°	603.7	596.9	594.4	592.0	592.0
42.5°	576.8	570.5	568.0	566.3	565.7
45°	535.6	531.0	528.6	527.0	526.2
47.5°	494.9	490.6	488.5	487.4	486.6
50°	466.7	463.6	462.8	460.4	459.7
52.5°	438.5	436.7	435.9	432.9	432.1
55°	397.0	396.3	397.0	391.5	390.8
57.5°	353.8	355.0	357.6	350.1	348.3
60°	325.0	328.0	331.2	322.6	319.5
62.5°	295.5	300.4	304.9	295.0	290.7
65°	251.4	259.0	263.9	253.5	245.1
67.5°	208.8	218.3	224.1	212.9	203.4
70°	179.3	190.0	196.6	185.3	174.6
72.5°	153.6	165.6	170.9	160.3	149.6
75°	115.9	126.6	133.1	124.2	112.8
77.5°	82.2	92.3	97.7	90.0	80.5
80°	60.3	71.0	75.2	68.7	61.1
82.5°	42.8	51.6	54.5	50.6	45.4
85°	19.6	25.7	29.0	27.4	25.8
87.5°	5.2	9.9	13.0	13.3	13.9
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

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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)