

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: P562638

Luminaire Tested: **SQ4-PC3-050U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562638
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

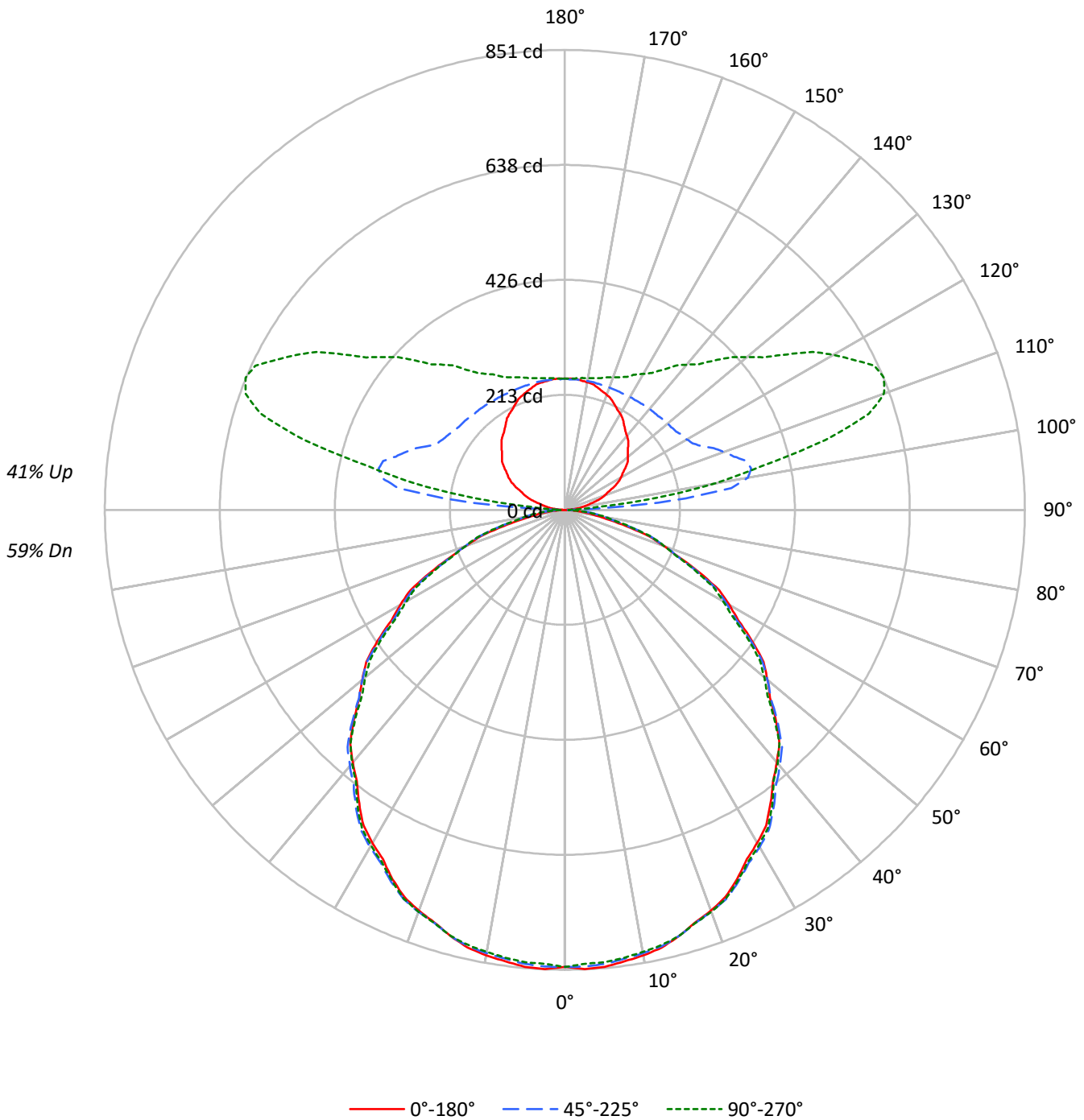
Lumens per Lamp: N/A
Luminaire Lumens: 3894.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59				
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50				
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42				
3	83	73	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	53	48	43	46	42	38	40	37	34	30				
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26				
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23				
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20				
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18				
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16				
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7781
10°	7842	7806	7783
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7708
30°	7583	7675	7642
35°	7471	7585	7532
40°	7347	7450	7376
45°	7213	7265	7153
50°	7025	7025	6913
55°	6803	6714	6613
60°	6473	6344	6242
65°	5984	5864	5811
70°	5239	5282	5260
75°	4214	4663	4691
80°	2997	3953	3995
85°	1821	3313	3313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	2.1
10°-20°	229.7	5.9
20°-30°	347.8	8.9
30°-40°	417.0	10.7
40°-50°	425.2	10.9
50°-60°	371.2	9.5
60°-70°	265.7	6.8
70°-80°	136.9	3.5
80°-90°	35.5	0.9
90°-100°	116.5	3.0
100°-110°	316.6	8.1
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°	657.6	16.9
0°-40°	1074.5	27.6
0°-60°	1870.9	48.0
0°-90°	2309.1	59.3
90°-120°	758.6	19.5
90°-150°	1380.1	35.4
90°-180°	1585.0	40.7
0°-180°	3894.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	849	840	843	841	840	81
15°	817	810	817	817	816	230
25°	754	749	760	757	757	347
35°	663	662	673	669	669	415
45°	553	551	557	550	548	426
55°	423	418	417	411	411	377
65°	274	268	269	266	266	271
75°	118	124	131	132	132	128
85°	17	26	31	32	31	23
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°	845.7	845.7	845.7	845.7	845.7
2.5°	850.7	843.4	845.7	843.8	840.7
5°	848.9	840.4	843.4	841.0	840.2
7.5°	842.7	834.3	838.2	836.6	835.9
10°	837.1	828.7	833.2	831.6	830.8
12.5°	829.6	821.8	826.9	825.4	825.2
15°	816.7	809.9	816.7	816.7	816.0
17.5°	800.6	794.3	801.7	802.2	801.7
20°	789.3	782.4	791.7	790.9	791.7
22.5°	775.6	769.9	779.8	777.8	778.5
25°	754.1	748.7	759.6	757.2	757.2
27.5°	728.7	724.9	736.7	734.2	734.2
30°	711.8	708.0	720.4	717.3	717.3
32.5°	693.0	690.4	702.3	698.5	698.5
35°	663.3	661.7	673.4	668.7	668.7
37.5°	632.6	631.2	641.8	636.1	634.3
40°	610.0	609.2	618.6	612.4	612.4
42.5°	587.5	586.7	594.8	587.3	587.3
45°	552.8	551.3	556.8	549.7	548.2
47.5°	515.1	513.6	517.0	509.3	508.5
50°	489.4	487.9	489.4	482.4	481.6
52.5°	463.1	460.4	460.6	453.6	453.4
55°	422.9	417.5	417.4	411.1	411.1
57.5°	380.3	373.2	373.8	368.5	367.7
60°	350.8	343.2	343.8	339.1	338.3
62.5°	322.0	313.1	315.0	309.6	309.5
65°	274.1	267.9	268.6	266.2	266.2
67.5°	228.0	222.4	226.5	224.6	224.4
70°	194.2	190.4	195.8	195.8	195.0
72.5°	162.9	162.7	169.5	169.5	169.9
75°	118.2	123.6	130.8	131.6	131.6
77.5°	78.9	88.4	96.3	96.6	96.5
80°	56.4	67.1	74.4	75.9	75.2
82.5°	38.2	49.5	55.6	57.1	56.4
85°	17.2	26.4	31.3	32.1	31.3
87.5°	5.2	11.1	13.6	13.9	12.7
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)