

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: P519104

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519104
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-050U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

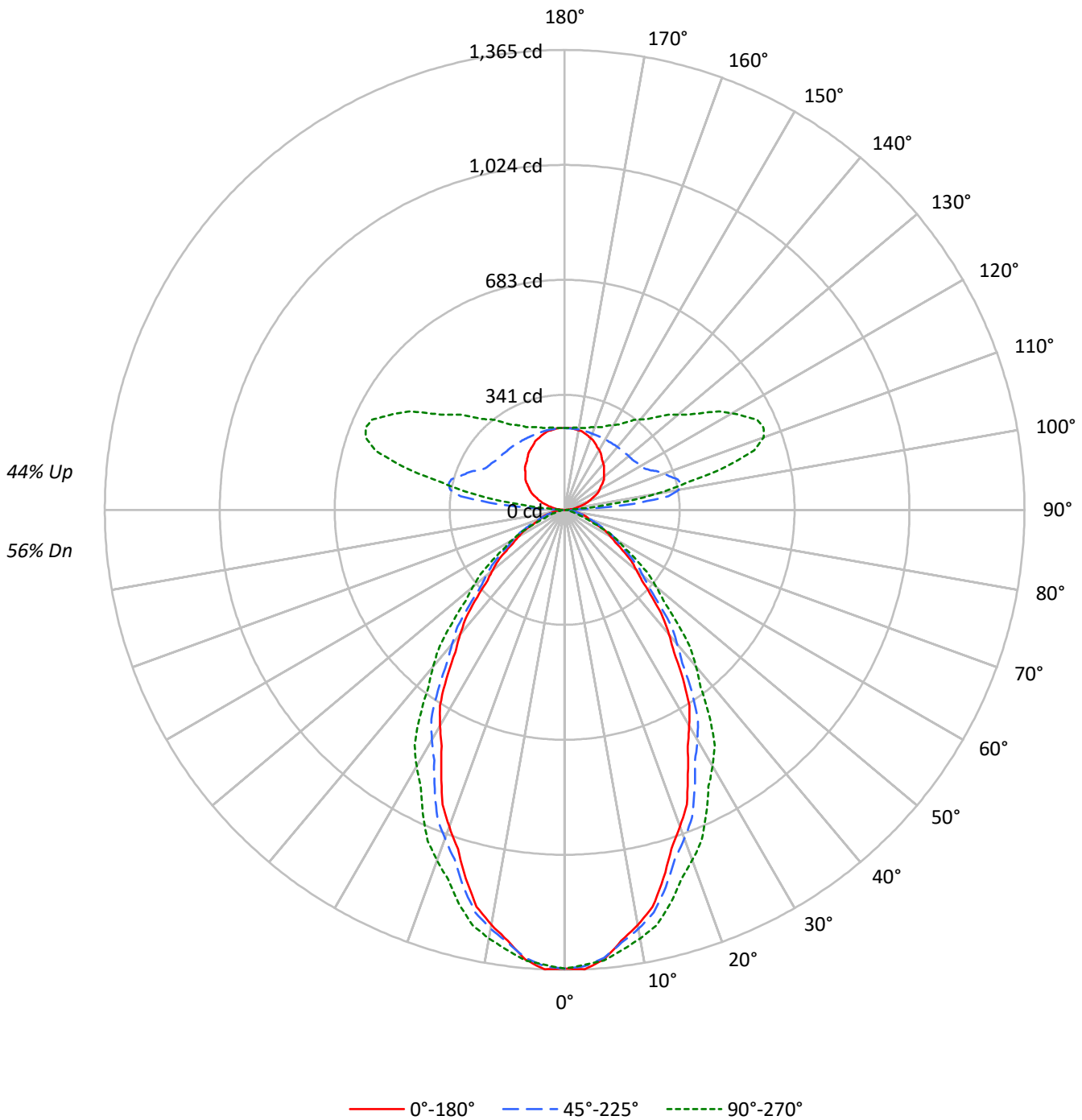
Lumens per Lamp: N/A
Luminaire Lumens: 3570.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56				56
1	100	96	93	90	93	90	87	84	78	76	74	66	65	64	56	55	54	49				49
2	92	86	80	76	86	80	75	71	70	66	63	60	57	55	51	49	48	43				43
3	85	77	70	65	79	72	66	61	63	58	55	54	51	48	46	44	42	38				38
4	79	69	62	56	73	65	58	53	57	52	48	49	46	43	42	40	38	34				34
5	73	62	55	49	68	58	52	47	51	46	42	45	41	38	39	36	34	31				31
6	68	56	49	43	63	53	46	41	47	42	38	41	37	34	36	33	30	28				28
7	63	51	44	39	59	49	42	37	43	38	34	38	34	31	33	30	28	25				25
8	59	47	40	35	55	45	38	33	40	34	31	35	31	28	31	28	25	23				23
9	55	43	36	31	51	41	35	30	37	32	28	33	29	26	29	26	23	21				21
10	52	40	33	29	48	38	32	28	34	29	26	30	26	23	27	24	21	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12562	12562	12562
5°	12406	12361	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9293	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3242	3351
65°	2310	2727	2166
70°	2047	2128	1322
75°	1896	1725	809
80°	1748	1589	696
85°	1577	1450	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.5
10°-20°	324.9	9.1
20°-30°	420.8	11.8
30°-40°	412.0	11.5
40°-50°	315.4	8.8
50°-60°	210.2	5.9
60°-70°	114.7	3.2
70°-80°	47.8	1.3
80°-90°	14.5	0.4
90°-100°	116.5	3.3
100°-110°	316.6	8.9
110°-120°	325.5	9.1
120°-130°	260.2	7.3
130°-140°	204.5	5.7
140°-150°	156.8	4.4
150°-160°	112.8	3.2
160°-170°	69.0	1.9
170°-180°	23.2	0.7
0°-30°	870.5	24.4
0°-40°	1282.6	35.9
0°-60°	1808.1	50.6
0°-90°	1985.1	55.6
90°-120°	758.6	21.2
90°-150°	1380.1	38.7
90°-180°	1585.0	44.4
0°-180°	3570.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1340	1326	1335	1338	1342	125
15°	1133	1129	1159	1191	1211	316
25°	866	868	913	953	995	398
35°	612	615	656	700	750	380
45°	367	374	398	429	468	286
55°	211	220	232	241	261	191
65°	106	114	125	109	99	110
75°	53	53	48	33	23	57
85°	15	15	14	9	5	16
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°	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1365.0	1352.8	1355.9	1355.8	1352.1
5°	1339.5	1326.1	1334.7	1337.8	1342.5
7.5°	1289.8	1279.6	1295.4	1307.1	1316.6
10°	1251.1	1242.3	1262.4	1279.5	1291.7
12.5°	1206.2	1198.8	1223.7	1246.6	1262.6
15°	1132.8	1128.7	1159.1	1190.6	1211.1
17.5°	1054.3	1052.3	1087.2	1124.0	1150.1
20°	1000.8	1000.2	1038.4	1076.7	1107.1
22.5°	946.7	948.0	988.2	1028.1	1062.7
25°	865.7	868.1	912.9	952.7	994.8
27.5°	790.8	791.9	838.2	880.3	925.1
30°	739.7	742.6	788.1	831.5	878.3
32.5°	688.5	691.9	736.4	781.4	829.0
35°	611.8	614.7	656.0	700.2	749.8
37.5°	532.7	536.7	573.3	615.1	663.9
40°	481.6	487.4	519.8	559.1	607.0
42.5°	432.3	439.6	469.6	506.9	550.1
45°	366.8	373.9	398.5	428.7	467.8
47.5°	310.4	318.5	337.4	363.4	396.8
50°	278.4	286.0	303.5	322.8	354.3
52.5°	250.2	257.8	273.4	288.2	315.1
55°	210.9	219.7	232.4	241.2	261.1
57.5°	178.6	187.1	197.2	201.1	213.2
60°	157.1	166.5	175.7	175.2	181.6
62.5°	137.5	145.5	154.6	148.3	148.6
65°	105.8	114.5	124.9	109.1	99.2
67.5°	85.4	87.3	98.0	76.1	64.3
70°	75.9	75.9	78.9	58.9	49.0
72.5°	66.8	66.8	64.0	47.9	37.5
75°	53.2	53.2	48.4	33.2	22.7
77.5°	41.0	40.5	37.0	24.8	16.5
80°	32.9	32.9	29.9	19.6	13.1
82.5°	25.7	25.7	23.2	15.3	9.8
85°	14.9	14.9	13.7	8.9	5.4
87.5°	5.4	5.9	5.9	4.3	3.8
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)