

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521706

Luminaire Tested: **SQ4-WB-025U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521706
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

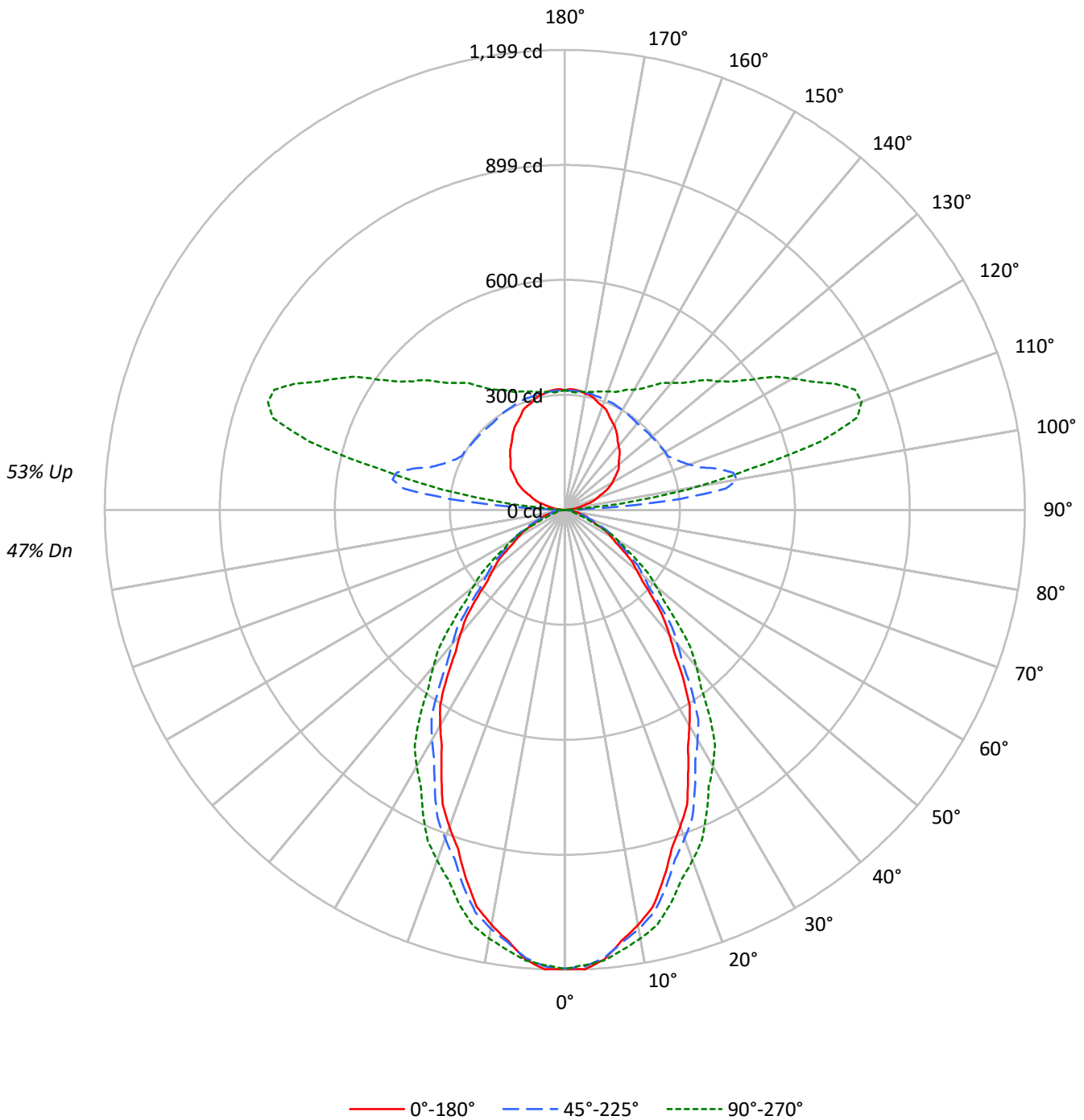
Lumens per Lamp: N/A
Luminaire Lumens: 3679.8 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 34.7
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	91	88	90	87	84	81	73	71	69	61	59	58	49	48	47	42
2	90	84	78	74	83	77	73	69	66	62	59	55	52	50	45	43	42	37
3	83	75	68	63	76	69	63	59	59	55	51	49	46	44	41	39	37	33
4	77	67	60	54	71	62	56	51	53	48	45	45	41	39	37	35	33	29
5	71	60	53	47	65	56	49	45	48	43	39	41	37	34	34	31	29	26
6	66	54	47	42	61	51	44	39	44	39	35	37	34	31	31	29	26	24
7	61	50	42	37	56	46	40	35	40	35	31	34	31	28	29	26	24	21
8	57	45	38	33	53	42	36	31	37	32	28	32	28	25	27	24	22	20
9	53	42	35	30	49	39	33	28	34	29	26	29	26	23	25	22	20	18
10	50	38	32	27	46	36	30	26	32	27	23	27	24	21	23	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11036	11036	11036
5°	10899	10860	10923
10°	10297	10391	10631
15°	9506	9726	10162
20°	8632	8956	9549
25°	7742	8164	8896
30°	6923	7375	8220
35°	6054	6491	7419
40°	5095	5499	6423
45°	4205	4568	5363
50°	3511	3827	4468
55°	2981	3285	3690
60°	2546	2847	2945
65°	2028	2395	1901
70°	1799	1869	1160
75°	1665	1515	709
80°	1536	1392	611
85°	1387	1281	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.7	3.0
10°-20°	285.4	7.8
20°-30°	369.7	10.0
30°-40°	362.0	9.8
40°-50°	277.1	7.5
50°-60°	184.6	5.0
60°-70°	100.8	2.7
70°-80°	42.0	1.1
80°-90°	11.9	0.3
90°-100°	142.1	3.9
100°-110°	404.2	11.0
110°-120°	387.3	10.5
120°-130°	306.6	8.3
130°-140°	246.0	6.7
140°-150°	192.6	5.2
150°-160°	140.9	3.8
160°-170°	87.3	2.4
170°-180°	29.6	0.8
0°-30°	764.8	20.8
0°-40°	1126.7	30.6
0°-60°	1588.4	43.2
0°-90°	1743.1	47.4
90°-120°	933.6	25.4
90°-150°	1678.9	45.6
90°-180°	1937.0	52.6
0°-180°	3679.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1177	1165	1173	1175	1179	109
15°	995	992	1018	1046	1064	278
25°	760	763	802	837	874	350
35°	538	540	576	615	659	334
45°	322	328	350	377	411	251
55°	185	193	204	212	229	168
65°	93	101	110	96	87	97
75°	47	47	42	29	20	50
85°	13	13	12	8	5	14
90°	0	0	0	0	0	1
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.2	1196.2	1196.2	1196.2	1196.2
2.5°	1199.1	1188.5	1191.2	1191.1	1187.8
5°	1176.8	1165.0	1172.6	1175.3	1179.4
7.5°	1133.1	1124.2	1138.0	1148.3	1156.6
10°	1099.1	1091.4	1109.1	1124.0	1134.8
12.5°	1059.6	1053.2	1075.0	1095.1	1109.2
15°	995.2	991.6	1018.3	1046.0	1063.9
17.5°	926.2	924.4	955.1	987.4	1010.4
20°	879.2	878.7	912.2	945.9	972.6
22.5°	831.7	832.8	868.1	903.2	933.5
25°	760.5	762.6	802.0	837.0	873.9
27.5°	694.7	695.6	736.4	773.3	812.7
30°	649.8	652.4	692.3	730.5	771.6
32.5°	604.9	607.8	647.0	686.4	728.3
35°	537.5	540.0	576.3	615.1	658.7
37.5°	468.0	471.5	503.7	540.3	583.2
40°	423.0	428.2	456.6	491.2	533.3
42.5°	379.8	386.2	412.6	445.3	483.3
45°	322.3	328.4	350.1	376.6	411.0
47.5°	272.7	279.8	296.4	319.3	348.6
50°	244.6	251.3	266.6	283.5	311.3
52.5°	219.8	226.5	240.2	253.2	276.8
55°	185.3	193.0	204.2	211.9	229.4
57.5°	156.9	164.3	173.2	176.7	187.3
60°	138.0	146.3	154.3	153.9	159.6
62.5°	120.8	127.8	135.8	130.3	130.6
65°	92.9	100.6	109.7	95.9	87.1
67.5°	75.1	76.7	86.1	66.8	56.5
70°	66.7	66.7	69.3	51.8	43.0
72.5°	58.7	58.7	56.3	42.1	33.0
75°	46.7	46.7	42.5	29.2	19.9
77.5°	36.0	35.6	32.5	21.8	14.5
80°	28.9	28.9	26.2	17.2	11.5
82.5°	22.6	22.6	20.4	13.4	8.6
85°	13.1	13.1	12.1	7.8	4.7
87.5°	4.6	4.6	4.2	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)