

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: P521714

Luminaire Tested: **SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521714
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

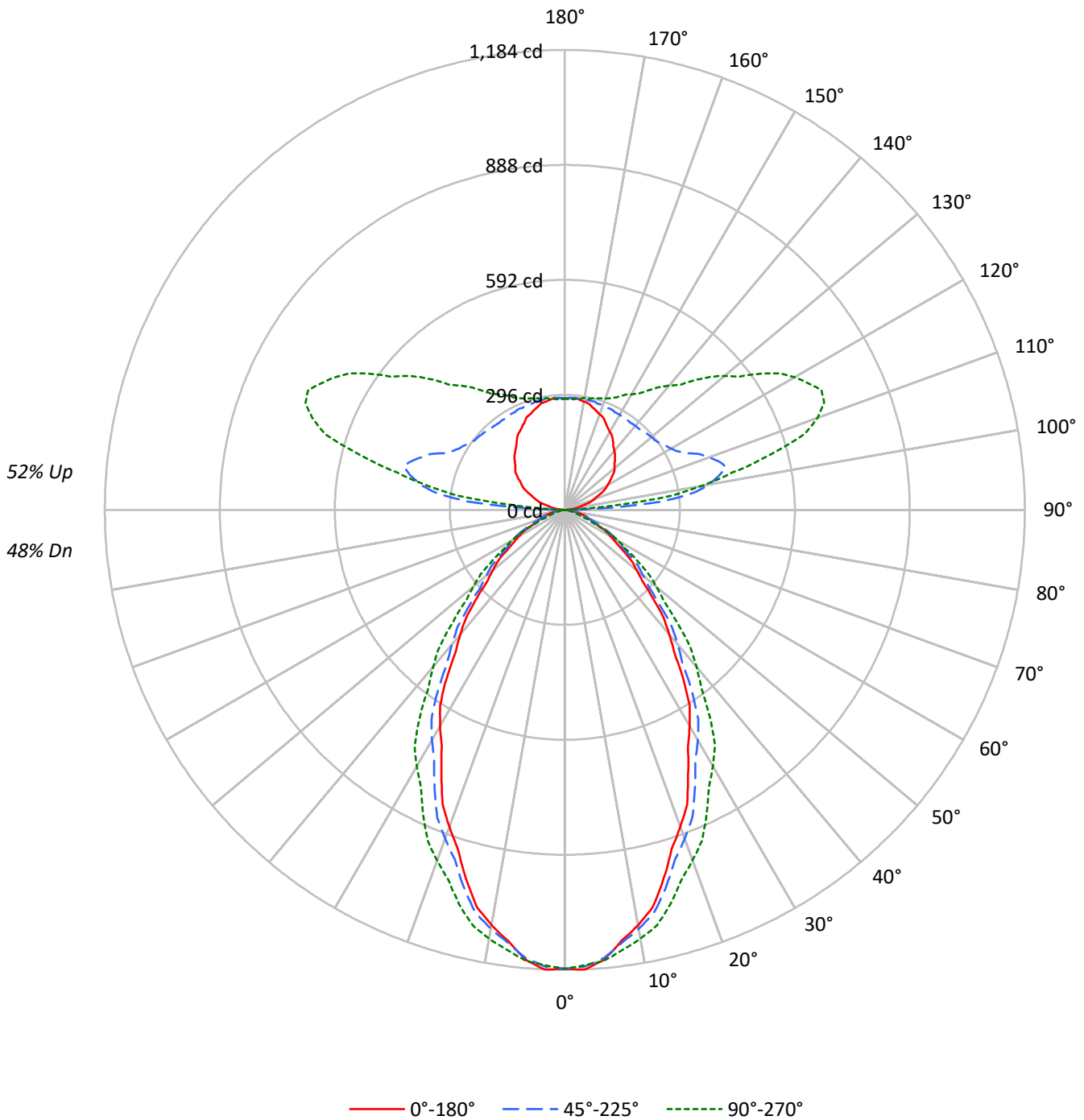
Lumens per Lamp: N/A
Luminaire Lumens: 3577.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.2
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	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	68	68	68	54	54	54	48						
	1	98	95	91	88	91	87	84	82	74	72	70	61	60	59	50	49	48	43						
	2	91	84	78	74	83	78	73	69	66	63	60	55	53	51	45	44	42	38						
	3	83	75	68	63	77	69	64	59	59	55	52	50	47	44	41	39	37	33						
	4	77	67	60	54	71	62	56	51	53	49	45	45	42	39	38	35	33	30						
	5	71	60	53	47	65	56	50	45	48	43	40	41	38	35	34	32	30	27						
	6	66	55	47	42	61	51	44	40	44	39	35	38	34	31	32	29	27	24						
	7	61	50	42	37	57	47	40	35	40	35	32	35	31	28	29	27	24	22						
	8	57	46	38	33	53	43	36	32	37	32	28	32	28	25	27	24	22	20						
	9	53	42	35	30	49	39	33	29	34	29	26	30	26	23	25	23	20	18						
	10	50	39	32	27	46	36	30	26	32	27	24	28	24	21	24	21	19	17						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10902	10902	10902
5°	10766	10728	10790
10°	10171	10263	10502
15°	9389	9608	10039
20°	8527	8847	9432
25°	7648	8065	8788
30°	6838	7286	8120
35°	5980	6412	7329
40°	5033	5433	6345
45°	4153	4512	5297
50°	3468	3781	4414
55°	2944	3244	3645
60°	2517	2812	2908
65°	2004	2366	1880
70°	1775	1845	1146
75°	1643	1497	702
80°	1514	1376	606
85°	1376	1260	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.0
10°-20°	281.9	7.9
20°-30°	365.2	10.2
30°-40°	357.6	10.0
40°-50°	273.7	7.7
50°-60°	182.4	5.1
60°-70°	99.5	2.8
70°-80°	41.5	1.2
80°-90°	11.7	0.3
90°-100°	147.7	4.1
100°-110°	357.0	10.0
110°-120°	380.7	10.6
120°-130°	308.4	8.6
130°-140°	238.7	6.7
140°-150°	182.1	5.1
150°-160°	131.8	3.7
160°-170°	81.2	2.3
170°-180°	27.5	0.8
0°-30°	755.4	21.1
0°-40°	1113.0	31.1
0°-60°	1569.1	43.9
0°-90°	1721.8	48.1
90°-120°	885.4	24.8
90°-150°	1614.6	45.1
90°-180°	1855.0	51.9
0°-180°	3577.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1162	1151	1158	1161	1165	108
15°	983	980	1006	1033	1051	275
25°	751	753	792	827	863	346
35°	531	534	569	608	651	330
45°	318	324	346	372	406	248
55°	183	191	202	209	227	166
65°	92	99	108	95	86	95
75°	46	46	42	29	20	49
85°	13	13	12	8	5	14
90°	0	0	0	0	0	1
95°	15	74	253	164	115	16
105°	57	99	429	555	548	60
115°	104	134	345	654	729	103
125°	149	171	299	520	610	133
135°	183	204	287	410	472	141
145°	216	232	282	348	376	135
155°	248	258	285	308	320	114
165°	274	278	289	293	297	77
175°	290	288	290	287	286	27
180°	286	286	286	286	286	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1184.5	1174.0	1176.6	1176.6	1173.3
5°	1162.4	1150.8	1158.3	1161.0	1165.0
7.5°	1119.3	1110.5	1124.2	1134.3	1142.5
10°	1085.7	1078.1	1095.5	1110.3	1121.0
12.5°	1046.7	1040.3	1062.0	1081.8	1095.7
15°	983.0	979.5	1005.9	1033.2	1051.0
17.5°	914.9	913.2	943.4	975.4	998.1
20°	868.5	867.9	901.1	934.4	960.7
22.5°	821.6	822.7	857.6	892.2	922.2
25°	751.3	753.3	792.2	826.8	863.3
27.5°	686.3	687.2	727.4	763.9	802.8
30°	641.9	644.4	683.9	721.6	762.2
32.5°	597.5	600.4	639.1	678.1	719.4
35°	530.9	533.5	569.3	607.6	650.7
37.5°	462.3	465.7	497.5	533.8	576.1
40°	417.9	423.0	451.1	485.2	526.8
42.5°	375.2	381.5	407.5	439.9	477.4
45°	318.3	324.4	345.8	372.0	406.0
47.5°	269.4	276.4	292.8	315.4	344.4
50°	241.6	248.2	263.4	280.1	307.5
52.5°	217.1	223.7	237.3	250.1	273.4
55°	183.0	190.6	201.7	209.3	226.6
57.5°	155.0	162.3	171.1	174.6	185.0
60°	136.4	144.5	152.4	152.0	157.6
62.5°	119.4	126.2	134.2	128.7	129.0
65°	91.8	99.4	108.4	94.7	86.1
67.5°	74.1	75.8	85.0	66.0	55.8
70°	65.8	65.8	68.4	51.1	42.5
72.5°	58.0	58.0	55.6	41.6	32.6
75°	46.1	46.1	42.0	28.8	19.7
77.5°	35.6	35.2	32.1	21.5	14.3
80°	28.5	28.5	25.9	17.0	11.4
82.5°	22.3	22.3	20.1	13.3	8.5
85°	13.0	13.0	11.9	7.7	4.7
87.5°	4.6	4.6	4.1	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.9	40.0	94.2	45.8	31.1
95°	14.6	73.9	253.1	164.5	115.3
97.5°	25.9	81.9	333.3	321.1	275.6
100°	34.6	86.8	377.5	398.5	361.1
102.5°	42.8	91.3	406.6	462.9	440.7
105°	57.0	98.6	429.0	555.1	548.0
107.5°	71.0	107.2	415.8	629.1	645.8
110°	80.7	114.5	394.4	661.0	692.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	90.4	121.9	375.5	668.7	722.5
115°	104.4	133.5	344.7	653.5	728.8
117.5°	118.2	145.6	326.6	618.3	706.6
120°	127.4	153.0	314.9	590.7	683.3
122.5°	137.1	160.8	307.7	562.5	653.7
125°	148.7	171.2	299.2	519.7	610.5
127.5°	160.1	181.3	293.2	483.4	563.1
130°	166.9	187.6	291.3	458.1	536.4
132.5°	173.2	194.9	288.4	439.9	506.3
135°	182.7	204.0	287.0	409.8	471.5
137.5°	191.6	213.1	282.8	389.4	436.0
140°	198.4	218.0	282.8	374.8	417.5
142.5°	205.2	224.8	280.4	362.0	398.1
145°	216.0	232.1	281.6	348.3	375.6
147.5°	226.1	241.7	280.8	332.6	355.1
150°	232.4	246.1	282.8	325.7	343.5
152.5°	239.2	252.4	282.3	318.3	334.2
155°	247.6	258.3	285.2	308.5	319.8
157.5°	257.7	266.8	284.6	304.8	311.4
160°	261.5	269.3	287.0	299.9	304.6
162.5°	267.9	274.6	286.1	298.4	301.2
165°	273.7	277.8	288.9	293.2	297.4
167.5°	280.8	283.6	288.1	292.9	293.0
170°	282.8	284.6	290.1	289.5	292.5
172.5°	286.2	287.5	288.6	289.9	288.1
175°	289.5	288.3	289.5	287.0	286.4
177.5°	288.9	288.9	287.9	286.9	284.5
180°	286.4	286.4	286.4	286.4	286.4

(END OF REPORT)