

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: P521712

Luminaire Tested: **SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521712
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 (3000K)
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 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

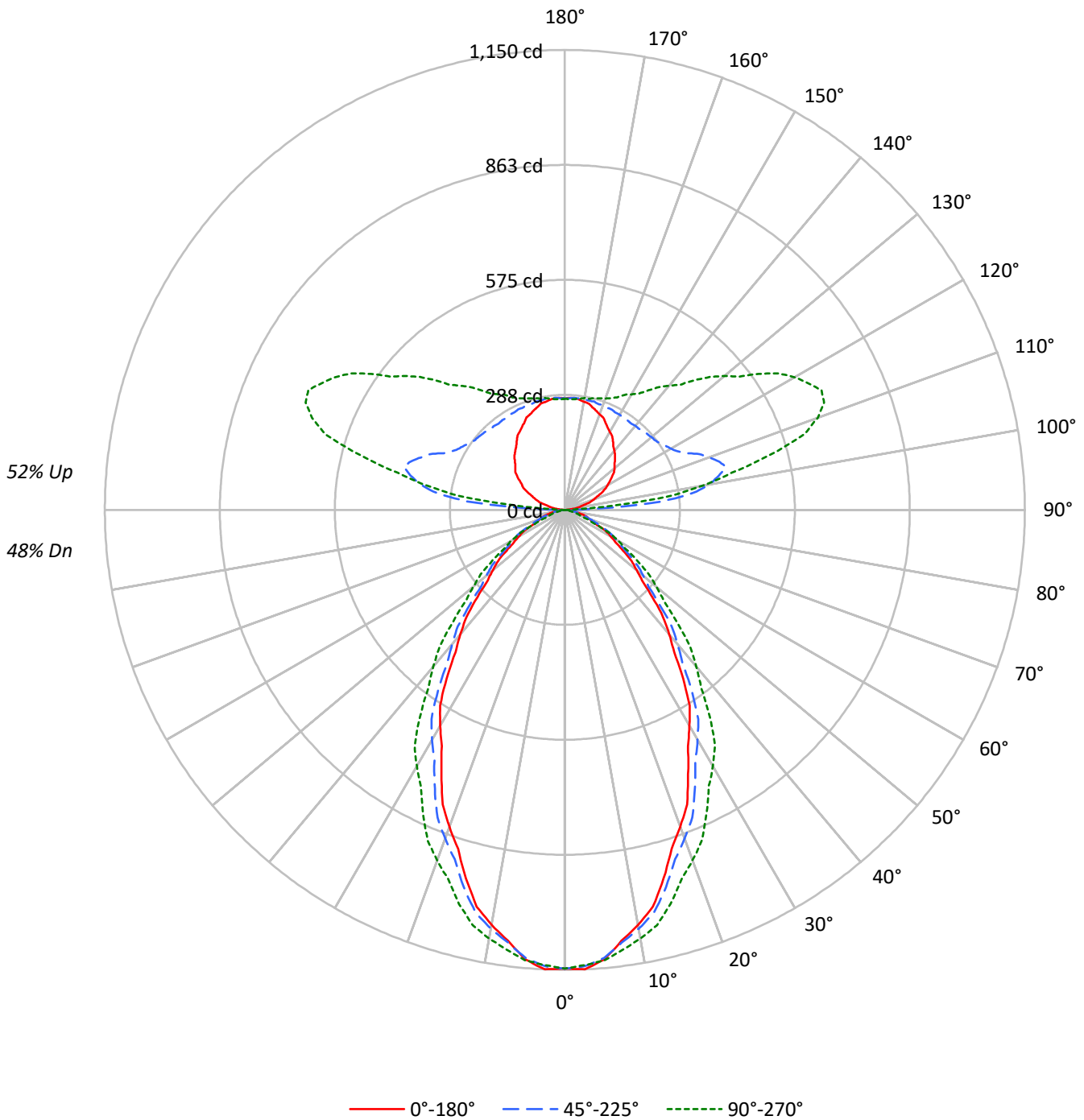
Lumens per Lamp: N/A
Luminaire Lumens: 3472.8 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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				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	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°	10584	10584	10584
5°	10452	10415	10476
10°	9875	9964	10196
15°	9116	9328	9747
20°	8279	8590	9159
25°	7425	7830	8532
30°	6639	7074	7884
35°	5806	6225	7115
40°	4886	5274	6159
45°	4033	4381	5142
50°	3367	3670	4284
55°	2858	3150	3539
60°	2443	2731	2823
65°	1945	2297	1825
70°	1724	1791	1114
75°	1597	1454	681
80°	1472	1339	590
85°	1334	1228	476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.0
10°-20°	273.7	7.9
20°-30°	354.5	10.2
30°-40°	347.2	10.0
40°-50°	265.7	7.7
50°-60°	177.1	5.1
60°-70°	96.6	2.8
70°-80°	40.3	1.2
80°-90°	11.4	0.3
90°-100°	143.4	4.1
100°-110°	346.6	10.0
110°-120°	369.6	10.6
120°-130°	299.4	8.6
130°-140°	231.8	6.7
140°-150°	176.8	5.1
150°-160°	128.0	3.7
160°-170°	78.8	2.3
170°-180°	26.7	0.8
0°-30°	733.4	21.1
0°-40°	1080.6	31.1
0°-60°	1523.4	43.9
0°-90°	1671.7	48.1
90°-120°	859.6	24.8
90°-150°	1567.6	45.1
90°-180°	1801.0	51.9
0°-180°	3472.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1129	1117	1125	1127	1131	105
15°	954	951	977	1003	1020	267
25°	729	731	769	803	838	335
35°	516	518	553	590	632	320
45°	309	315	336	361	394	241
55°	178	185	196	203	220	161
65°	89	96	105	92	84	93
75°	45	45	41	28	19	48
85°	13	13	12	8	4	14
90°	0	0	0	0	0	1
95°	14	72	246	160	112	16
105°	55	96	416	539	532	58
115°	101	130	335	634	708	100
125°	144	166	290	505	593	129
135°	177	198	279	398	458	137
145°	210	225	273	338	365	131
155°	240	251	277	300	310	111
165°	266	270	280	285	289	75
175°	281	280	281	279	278	27
180°	278	278	278	278	278	

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CATALOG NUMBER: SQ4-WB-025U-050D-93050-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.2	1147.2	1147.2	1147.2	1147.2
2.5°	1150.0	1139.8	1142.4	1142.3	1139.2
5°	1128.6	1117.3	1124.6	1127.2	1131.1
7.5°	1086.7	1078.1	1091.4	1101.3	1109.3
10°	1054.1	1046.7	1063.6	1078.0	1088.3
12.5°	1016.2	1010.0	1031.0	1050.3	1063.7
15°	954.4	951.0	976.6	1003.1	1020.4
17.5°	888.3	886.6	916.0	947.0	969.0
20°	843.2	842.7	874.9	907.2	932.8
22.5°	797.7	798.7	832.6	866.2	895.3
25°	729.4	731.4	769.2	802.7	838.1
27.5°	666.3	667.2	706.2	741.6	779.4
30°	623.2	625.6	664.0	700.6	740.0
32.5°	580.1	583.0	620.5	658.3	698.5
35°	515.5	517.9	552.7	589.9	631.7
37.5°	448.8	452.2	483.0	518.2	559.4
40°	405.7	410.6	437.9	471.1	511.4
42.5°	364.2	370.4	395.7	427.1	463.5
45°	309.1	315.0	335.8	361.2	394.1
47.5°	261.6	268.3	284.3	306.2	334.3
50°	234.6	241.0	255.7	271.9	298.5
52.5°	210.8	217.2	230.3	242.8	265.5
55°	177.7	185.1	195.8	203.2	220.0
57.5°	150.5	157.6	166.1	169.5	179.6
60°	132.4	140.3	148.0	147.6	153.0
62.5°	115.9	122.6	130.3	124.9	125.2
65°	89.1	96.5	105.2	91.9	83.6
67.5°	72.0	73.6	82.6	64.1	54.2
70°	63.9	63.9	66.4	49.6	41.3
72.5°	56.3	56.3	54.0	40.4	31.6
75°	44.8	44.8	40.8	28.0	19.1
77.5°	34.5	34.1	31.2	20.9	13.9
80°	27.7	27.7	25.2	16.5	11.1
82.5°	21.6	21.6	19.5	12.9	8.3
85°	12.6	12.6	11.6	7.5	4.5
87.5°	4.4	4.4	4.0	2.4	2.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	38.8	91.4	44.5	30.2
95°	14.1	71.7	245.7	159.8	111.9
97.5°	25.1	79.5	323.6	311.7	267.6
100°	33.6	84.3	366.5	386.8	350.6
102.5°	41.6	88.6	394.7	449.4	427.9
105°	55.4	95.7	416.5	538.9	532.0
107.5°	68.9	104.1	403.7	610.7	627.0
110°	78.4	111.2	383.0	641.7	672.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.8	118.3	364.6	649.3	701.5
115°	101.3	129.6	334.6	634.4	707.6
117.5°	114.8	141.4	317.1	600.3	686.0
120°	123.7	148.5	305.8	573.5	663.4
122.5°	133.2	156.1	298.7	546.2	634.7
125°	144.3	166.2	290.5	504.6	592.7
127.5°	155.4	176.0	284.7	469.3	546.7
130°	162.0	182.2	282.8	444.8	520.8
132.5°	168.1	189.2	280.0	427.1	491.6
135°	177.3	198.1	278.7	397.9	457.8
137.5°	186.1	206.9	274.6	378.1	423.3
140°	192.7	211.7	274.6	363.9	405.3
142.5°	199.3	218.3	272.2	351.5	386.5
145°	209.7	225.3	273.4	338.2	364.7
147.5°	219.5	234.6	272.7	322.9	344.8
150°	225.7	238.9	274.6	316.2	333.5
152.5°	232.3	245.0	274.1	309.1	324.5
155°	240.4	250.8	276.9	299.5	310.5
157.5°	250.2	259.0	276.3	295.9	302.4
160°	253.9	261.4	278.7	291.2	295.8
162.5°	260.1	266.6	277.7	289.7	292.5
165°	265.7	269.7	280.4	284.7	288.7
167.5°	272.7	275.3	279.7	284.3	284.5
170°	274.6	276.3	281.6	281.1	284.0
172.5°	277.9	279.1	280.2	281.5	279.7
175°	281.0	279.9	281.0	278.7	278.1
177.5°	280.4	280.4	279.5	278.5	276.2
180°	278.1	278.1	278.1	278.1	278.1

(END OF REPORT)