

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: P521738

Luminaire Tested: **SQ4-WB-025U-100D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521738
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-100D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

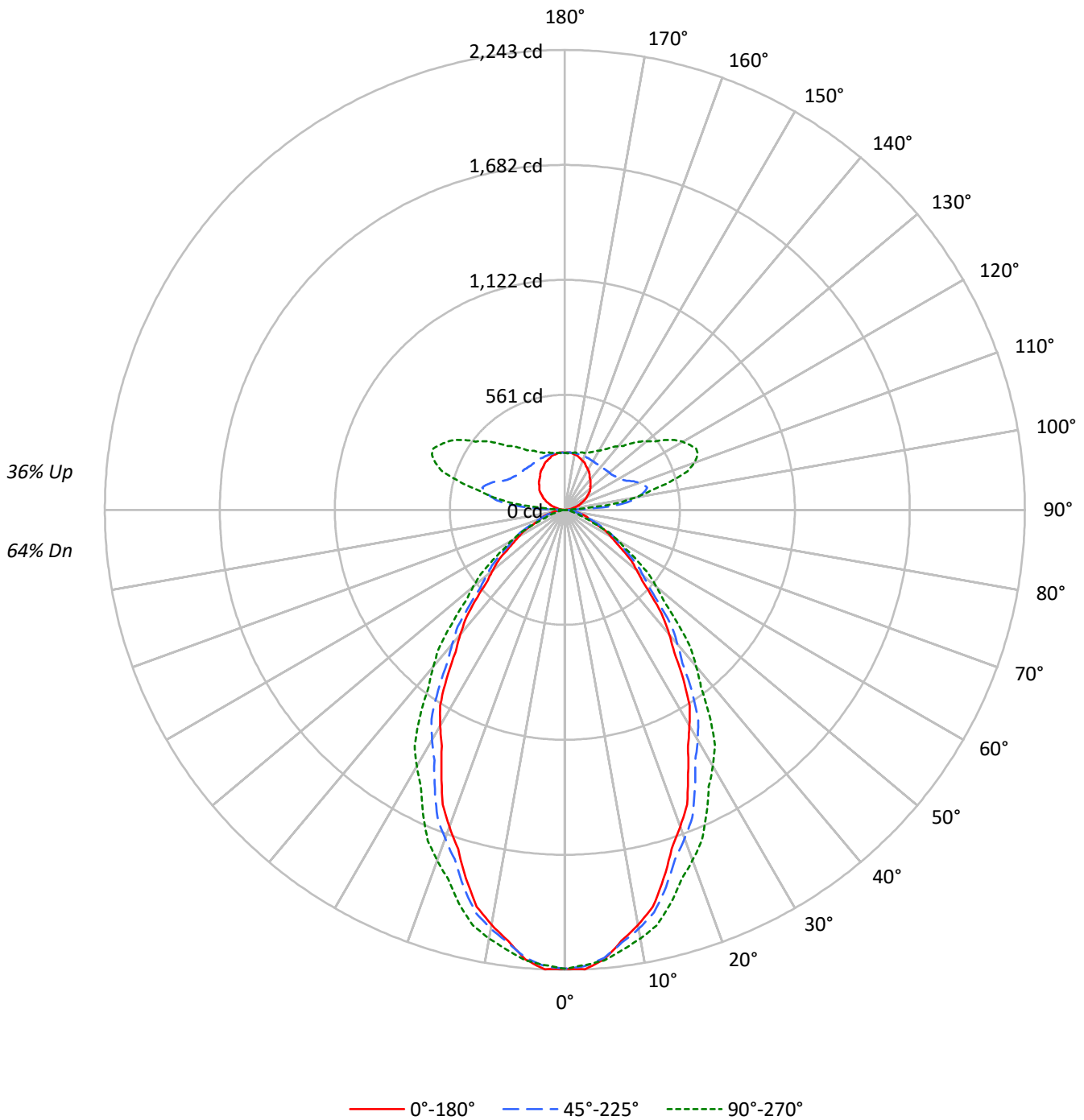
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5061.8 lumens
Efficiency: N/A
Efficacy: 89.1 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: Semi-Direct

Input Watts (W): 56.8
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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64	64	64	64	
1	102	99	95	92	96	93	90	87	82	80	78	73	71	70	64	62	61	57	57	57	57	
2	95	88	82	78	89	83	78	74	74	70	67	66	63	61	58	56	54	50	50	50	50	
3	87	79	72	67	82	75	69	64	67	62	58	59	56	53	53	50	48	45	45	45	45	
4	81	71	64	58	76	67	61	56	60	55	51	54	50	47	48	45	43	40	40	40	40	
5	75	64	57	51	70	61	54	49	55	50	45	49	45	42	44	41	38	36	36	36	36	
6	70	58	51	45	66	56	49	44	50	45	41	45	41	38	41	37	35	32	32	32	32	
7	65	53	46	41	61	51	44	39	46	41	37	42	37	34	38	34	32	29	29	29	29	
8	61	49	42	37	57	47	40	35	43	37	33	39	34	31	35	32	29	27	27	27	27	
9	57	45	38	33	54	43	37	32	40	34	30	36	32	28	33	29	26	25	25	25	25	
10	53	42	35	30	51	40	34	30	37	31	28	34	29	26	31	27	24	23	23	23	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20645	20645	20645
5°	20387	20315	20433
10°	19262	19437	19888
15°	17781	18194	19010
20°	16147	16755	17863
25°	14483	15273	16642
30°	12949	13797	15376
35°	11324	12143	13878
40°	9532	10288	12015
45°	7867	8545	10031
50°	6567	7159	8357
55°	5575	6143	6902
60°	4764	5327	5508
65°	3794	4480	3558
70°	3364	3496	2172
75°	3116	2834	1330
80°	2869	2609	1148
85°	2594	2392	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.2	4.1
10°-20°	533.9	10.5
20°-30°	691.5	13.7
30°-40°	677.1	13.4
40°-50°	518.3	10.2
50°-60°	345.4	6.8
60°-70°	188.5	3.7
70°-80°	78.5	1.6
80°-90°	22.2	0.4
90°-100°	143.4	2.8
100°-110°	346.6	6.8
110°-120°	369.6	7.3
120°-130°	299.4	5.9
130°-140°	231.8	4.6
140°-150°	176.8	3.5
150°-160°	128.0	2.5
160°-170°	78.8	1.6
170°-180°	26.7	0.5
0°-30°	1430.6	28.3
0°-40°	2107.7	41.6
0°-60°	2971.4	58.7
0°-90°	3260.7	64.4
90°-120°	859.6	17.0
90°-150°	1567.6	31.0
90°-180°	1801.0	35.6
0°-180°	5061.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2201	2179	2194	2199	2206	205
15°	1862	1855	1905	1957	1990	520
25°	1423	1427	1500	1566	1635	654
35°	1005	1010	1078	1151	1232	625
45°	603	614	655	704	769	470
55°	347	361	382	396	429	314
65°	174	188	205	179	163	181
75°	87	87	80	55	37	93
85°	24	24	23	15	9	27
90°	0	0	0	0	0	2
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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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.7	2237.7	2237.7	2237.7	2237.7
2.5°	2243.2	2223.2	2228.2	2228.1	2222.0
5°	2201.3	2179.3	2193.5	2198.6	2206.2
7.5°	2119.6	2102.9	2128.9	2148.1	2163.6
10°	2056.0	2041.6	2074.7	2102.6	2122.8
12.5°	1982.2	1970.1	2011.1	2048.6	2074.9
15°	1861.6	1854.9	1904.8	1956.6	1990.2
17.5°	1732.6	1729.3	1786.6	1847.1	1890.1
20°	1644.6	1643.7	1706.5	1769.5	1819.4
22.5°	1555.9	1558.0	1624.0	1689.5	1746.3
25°	1422.7	1426.6	1500.3	1565.7	1634.8
27.5°	1299.6	1301.3	1377.6	1446.6	1520.3
30°	1215.5	1220.3	1295.1	1366.5	1443.3
32.5°	1131.5	1137.1	1210.2	1284.1	1362.4
35°	1005.4	1010.2	1078.1	1150.6	1232.2
37.5°	875.4	882.0	942.2	1010.8	1091.0
40°	791.4	801.0	854.2	918.9	997.6
42.5°	710.5	722.4	771.7	833.1	904.1
45°	602.9	614.4	654.9	704.5	768.8
47.5°	510.2	523.4	554.6	597.2	652.2
50°	457.5	470.0	498.8	530.4	582.2
52.5°	411.2	423.7	449.3	473.7	517.8
55°	346.6	361.0	381.9	396.4	429.1
57.5°	293.6	307.4	324.0	330.6	350.3
60°	258.2	273.6	288.7	287.9	298.5
62.5°	226.0	239.1	254.1	243.7	244.3
65°	173.8	188.2	205.2	179.3	163.0
67.5°	140.4	143.5	161.0	125.0	105.6
70°	124.7	124.7	129.6	96.8	80.5
72.5°	109.8	109.8	105.3	78.7	61.7
75°	87.4	87.4	79.5	54.6	37.3
77.5°	67.4	66.6	60.9	40.7	27.1
80°	54.0	54.0	49.1	32.2	21.6
82.5°	42.2	42.2	38.1	25.1	16.1
85°	24.5	24.5	22.6	14.6	8.8
87.5°	8.6	8.6	7.9	4.7	3.9
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)