

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: P519046

Luminaire Tested: **SQ4-WB-025U-125D-830-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519046
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

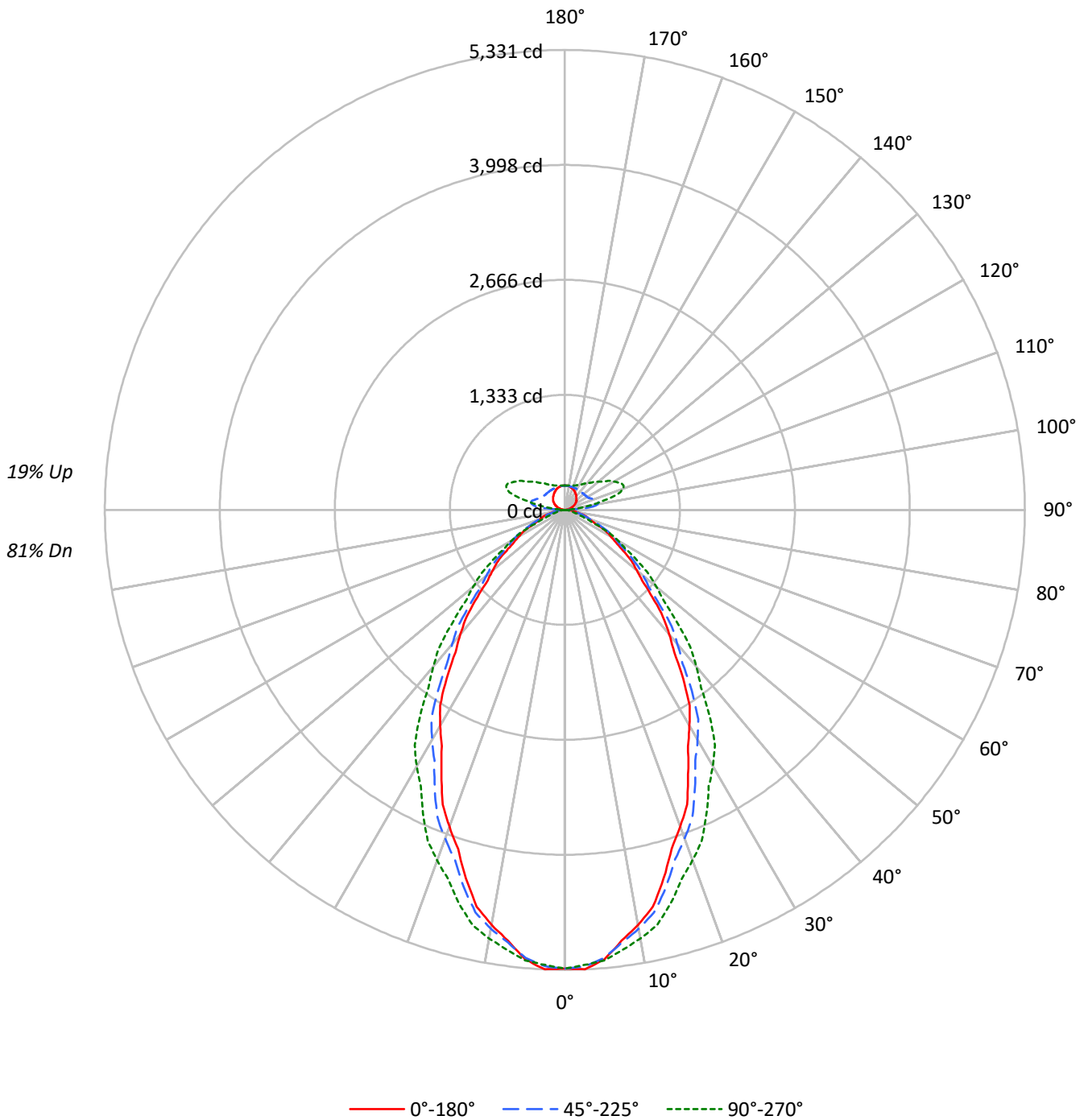
Lumens per Lamp: N/A
Luminaire Lumens: 9574.2 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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	50	30	10	50	30	10	50	30	10	0				
RCR																																		
0	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81																
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72																
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63																
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56																
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50																
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45																
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40																
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37																
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34																
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31																
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23096	23632
15°	21130	21620	22589
20°	19188	19910	21227
25°	17210	18148	19776
30°	15388	16395	18272
35°	13457	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7804	8507	9930
55°	6625	7300	8201
60°	5662	6329	6545
65°	4508	5324	4229
70°	3998	4154	2580
75°	3702	3369	1581
80°	3408	3100	1363
85°	3086	2842	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.8	5.1
10°-20°	1268.7	13.3
20°-30°	1643.4	17.2
30°-40°	1609.3	16.8
40°-50°	1231.8	12.9
50°-60°	820.8	8.6
60°-70°	447.9	4.7
70°-80°	186.6	1.9
80°-90°	54.4	0.6
90°-100°	137.1	1.4
100°-110°	360.4	3.8
110°-120°	373.8	3.9
120°-130°	299.8	3.1
130°-140°	235.2	2.5
140°-150°	180.5	1.9
150°-160°	130.0	1.4
160°-170°	79.6	0.8
170°-180°	26.9	0.3
0°-30°	3399.9	35.5
0°-40°	5009.2	52.3
0°-60°	7061.8	73.8
0°-90°	7750.8	81.0
90°-120°	871.3	9.1
90°-150°	1586.9	16.6
90°-180°	1823.0	19.0
0°-180°	9574.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5318	5318	5318	5318	5318	
5°	5232	5179	5213	5225	5243	487
15°	4424	4408	4527	4650	4730	1235
25°	3381	3390	3566	3721	3885	1555
35°	2390	2401	2562	2735	2928	1486
45°	1433	1460	1556	1674	1827	1117
55°	824	858	908	942	1020	747
65°	413	447	488	426	387	429
75°	208	208	189	130	89	222
85°	58	58	54	35	21	63
90°	2	5	14	7	7	4
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5318.0	5318.0	5318.0	5318.0	5318.0
2.5°	5331.0	5283.6	5295.6	5295.2	5280.6
5°	5231.6	5179.2	5213.0	5225.1	5243.3
7.5°	5037.5	4997.8	5059.4	5105.1	5142.0
10°	4886.3	4852.1	4930.6	4997.0	5045.0
12.5°	4710.8	4682.1	4779.4	4868.6	4931.1
15°	4424.3	4408.3	4526.9	4650.1	4729.9
17.5°	4117.6	4109.9	4246.0	4389.7	4491.9
20°	3908.6	3906.3	4055.6	4205.3	4323.9
22.5°	3697.6	3702.6	3859.6	4015.2	4150.3
25°	3381.2	3390.3	3565.5	3721.0	3885.2
27.5°	3088.6	3092.7	3273.9	3437.9	3613.1
30°	2888.8	2900.2	3077.8	3247.7	3430.2
32.5°	2689.1	2702.3	2876.2	3051.7	3237.9
35°	2389.5	2400.9	2562.1	2734.6	2928.5
37.5°	2080.5	2096.0	2239.2	2402.2	2593.0
40°	1880.8	1903.6	2030.1	2183.7	2370.8
42.5°	1688.5	1716.8	1834.1	1979.8	2148.7
45°	1432.8	1460.1	1556.4	1674.2	1827.1
47.5°	1212.5	1244.0	1317.9	1419.4	1549.9
50°	1087.4	1117.1	1185.4	1260.5	1383.7
52.5°	977.3	1006.9	1067.8	1125.7	1230.7
55°	823.7	857.9	907.7	942.2	1019.7
57.5°	697.7	730.6	770.0	785.6	832.6
60°	613.7	650.2	686.0	684.3	709.4
62.5°	537.2	568.2	603.9	579.2	580.6
65°	413.0	447.2	487.7	426.1	387.4
67.5°	333.7	341.0	382.7	297.2	251.1
70°	296.4	296.4	308.0	230.1	191.3
72.5°	260.9	260.9	250.1	187.2	146.5
75°	207.7	207.7	189.0	129.7	88.7
77.5°	160.1	158.3	144.7	96.8	64.4
80°	128.3	128.3	116.7	76.4	51.3
82.5°	100.3	100.3	90.5	59.7	38.3
85°	58.3	58.3	53.7	34.7	21.0
87.5°	20.9	21.6	21.6	12.6	10.8
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)