

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: P519096

Luminaire Tested: **SQ4-WB-050U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519096
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

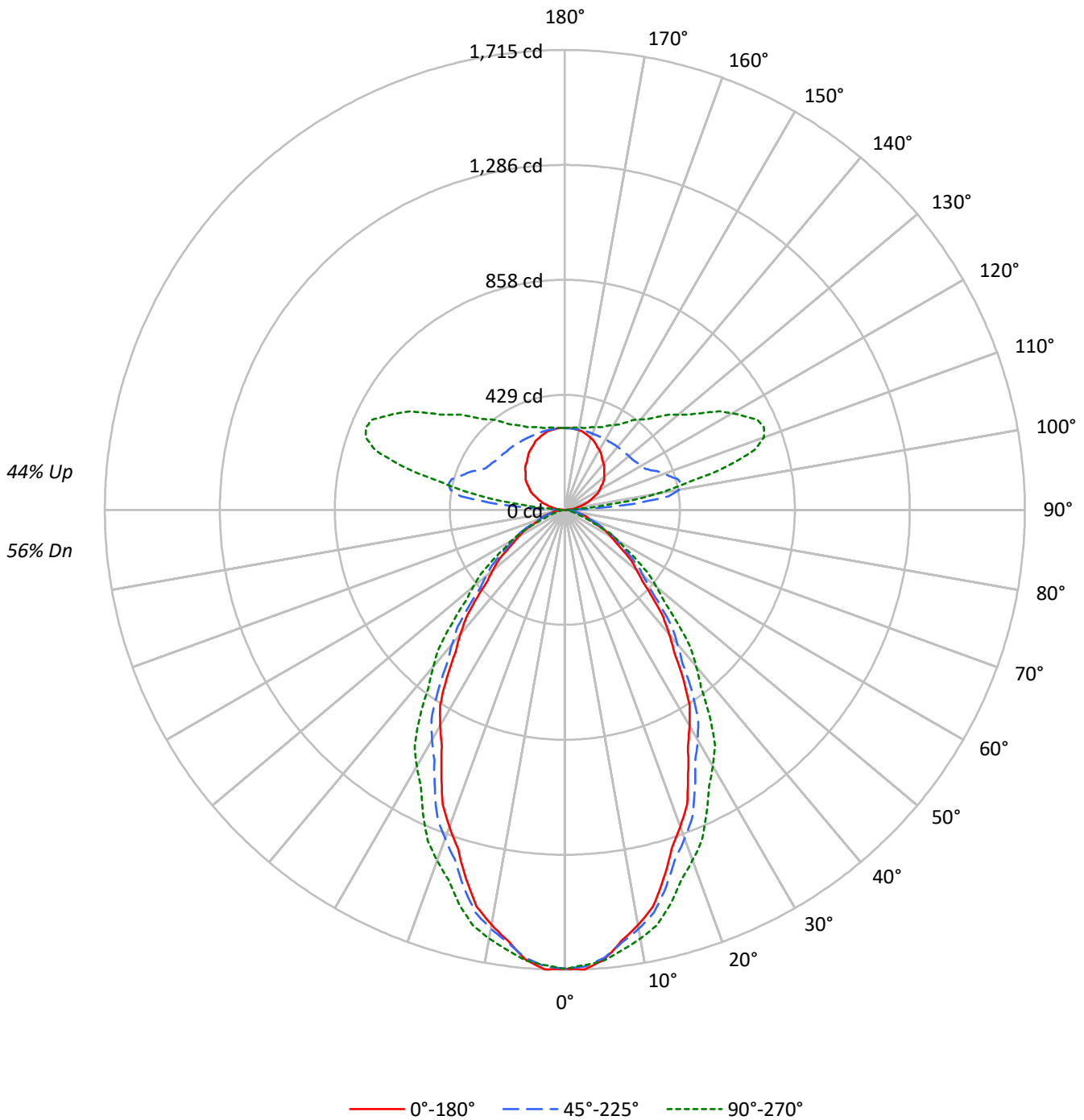
Lumens per Lamp: N/A
Luminaire Lumens: 4486.5 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	100	96	93	90	93	90	87	84	78	76	74	66	65	64	56	55	54	49
2	92	86	80	76	86	80	75	71	70	66	63	60	57	55	51	49	48	43
3	85	77	70	65	79	72	66	61	63	58	55	54	51	48	46	44	42	38
4	79	69	62	56	73	65	58	53	57	52	48	49	46	43	42	40	38	34
5	73	62	55	49	68	58	52	47	51	46	42	45	41	38	39	36	34	31
6	68	56	49	43	63	53	46	41	47	42	38	41	37	34	36	33	30	28
7	63	51	44	39	59	49	42	37	43	38	34	38	34	31	33	30	28	25
8	59	47	40	35	55	45	38	33	40	34	31	35	31	28	31	28	25	23
9	55	43	36	31	51	41	35	30	37	32	28	33	29	26	29	26	23	21
10	52	40	33	29	48	38	32	28	34	29	26	30	26	23	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15534	15625
10°	14729	14863	15208
15°	13598	13913	14537
20°	12348	12812	13660
25°	11075	11680	12726
30°	9902	10550	11758
35°	8659	9285	10613
40°	7289	7867	9187
45°	6015	6534	7671
50°	5022	5474	6390
55°	4263	4699	5278
60°	3644	4072	4211
65°	2901	3425	2720
70°	2573	2673	1662
75°	2381	2167	1016
80°	2194	1992	877
85°	1990	1831	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.5
10°-20°	408.2	9.1
20°-30°	528.8	11.8
30°-40°	517.8	11.5
40°-50°	396.3	8.8
50°-60°	264.1	5.9
60°-70°	144.1	3.2
70°-80°	60.0	1.3
80°-90°	18.2	0.4
90°-100°	146.4	3.3
100°-110°	397.8	8.9
110°-120°	409.0	9.1
120°-130°	327.0	7.3
130°-140°	257.0	5.7
140°-150°	197.0	4.4
150°-160°	141.7	3.2
160°-170°	86.7	1.9
170°-180°	29.2	0.7
0°-30°	1094.0	24.4
0°-40°	1611.8	35.9
0°-60°	2272.2	50.6
0°-90°	2494.6	55.6
90°-120°	953.3	21.2
90°-150°	1734.4	38.7
90°-180°	1992.0	44.4
0°-180°	4486.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1683	1666	1677	1681	1687	157
15°	1424	1418	1457	1496	1522	398
25°	1088	1091	1147	1197	1250	500
35°	769	772	824	880	942	478
45°	461	470	501	539	588	360
55°	265	276	292	303	328	240
65°	133	144	157	137	125	138
75°	67	67	61	42	28	71
85°	19	19	17	11	7	20
90°	1	4	7	9	9	2
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.1	1711.1	1711.1	1711.1	1711.1
2.5°	1715.3	1700.0	1703.9	1703.8	1699.1
5°	1683.3	1666.4	1677.3	1681.2	1687.1
7.5°	1620.9	1608.1	1627.9	1642.6	1654.5
10°	1572.2	1561.2	1586.5	1607.9	1623.3
12.5°	1515.8	1506.5	1537.8	1566.5	1586.6
15°	1423.6	1418.4	1456.6	1496.2	1521.9
17.5°	1324.9	1322.4	1366.2	1412.4	1445.3
20°	1257.6	1256.9	1304.9	1353.1	1391.3
22.5°	1189.7	1191.4	1241.9	1291.9	1335.4
25°	1087.9	1090.9	1147.3	1197.3	1250.1
27.5°	993.8	995.1	1053.4	1106.2	1162.6
30°	929.5	933.2	990.3	1045.0	1103.7
32.5°	865.2	869.5	925.5	981.9	1041.8
35°	768.8	772.5	824.4	879.9	942.3
37.5°	669.4	674.4	720.5	772.9	834.3
40°	605.2	612.5	653.2	702.6	762.8
42.5°	543.3	552.4	590.1	637.0	691.4
45°	461.0	469.8	500.8	538.7	587.9
47.5°	390.1	400.3	424.1	456.7	498.7
50°	349.9	359.4	381.4	405.6	445.2
52.5°	314.4	324.0	343.6	362.2	396.0
55°	265.0	276.1	292.1	303.1	328.1
57.5°	224.5	235.1	247.8	252.8	267.9
60°	197.5	209.2	220.7	220.2	228.2
62.5°	172.8	182.8	194.3	186.4	186.8
65°	132.9	143.9	156.9	137.1	124.6
67.5°	107.4	109.7	123.1	95.6	80.8
70°	95.4	95.4	99.1	74.0	61.6
72.5°	83.9	83.9	80.5	60.2	47.2
75°	66.8	66.8	60.8	41.7	28.5
77.5°	51.5	50.9	46.6	31.1	20.7
80°	41.3	41.3	37.5	24.6	16.5
82.5°	32.3	32.3	29.1	19.2	12.3
85°	18.8	18.8	17.3	11.2	6.8
87.5°	6.8	7.4	7.4	5.4	4.8
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)