

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: P519288

Luminaire Tested: **SQ4-WB-0U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519288
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-0U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

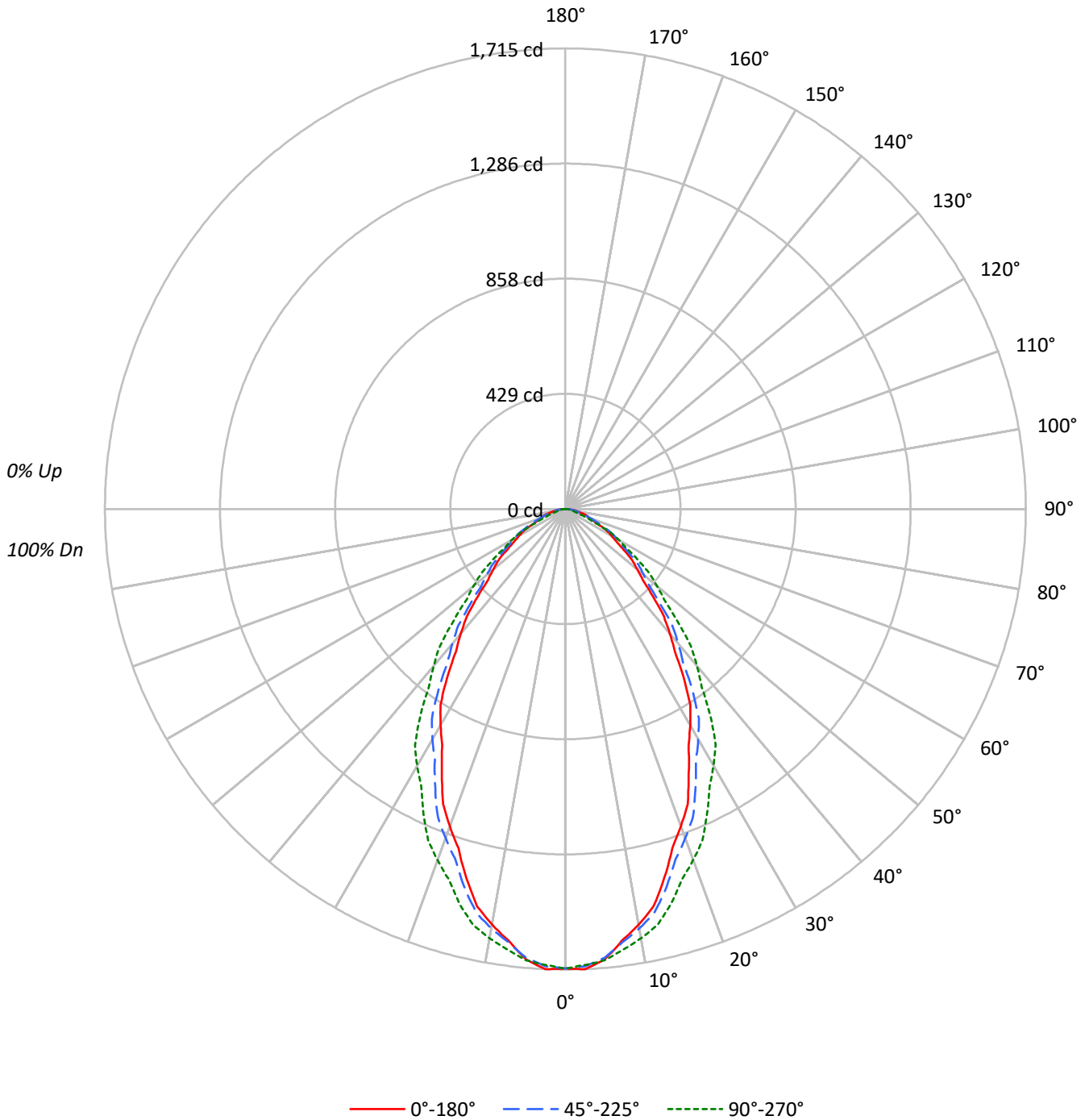
Lumens per Lamp: N/A
Luminaire Lumens: 2493.4 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35

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	6.3
10°-20°	408.2	16.4
20°-30°	528.8	21.2
30°-40°	517.8	20.8
40°-50°	396.3	15.9
50°-60°	264.1	10.6
60°-70°	144.1	5.8
70°-80°	60.0	2.4
80°-90°	17.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1094.0	43.9
0°-40°	1611.8	64.6
0°-60°	2272.2	91.1
0°-90°	2493.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2493.4	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	21
90°	0	0	0	0	0	



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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°	6.6	6.6	6.0	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)