

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: P519300

Luminaire Tested: **SQ4-WB-0U-075D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519300
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

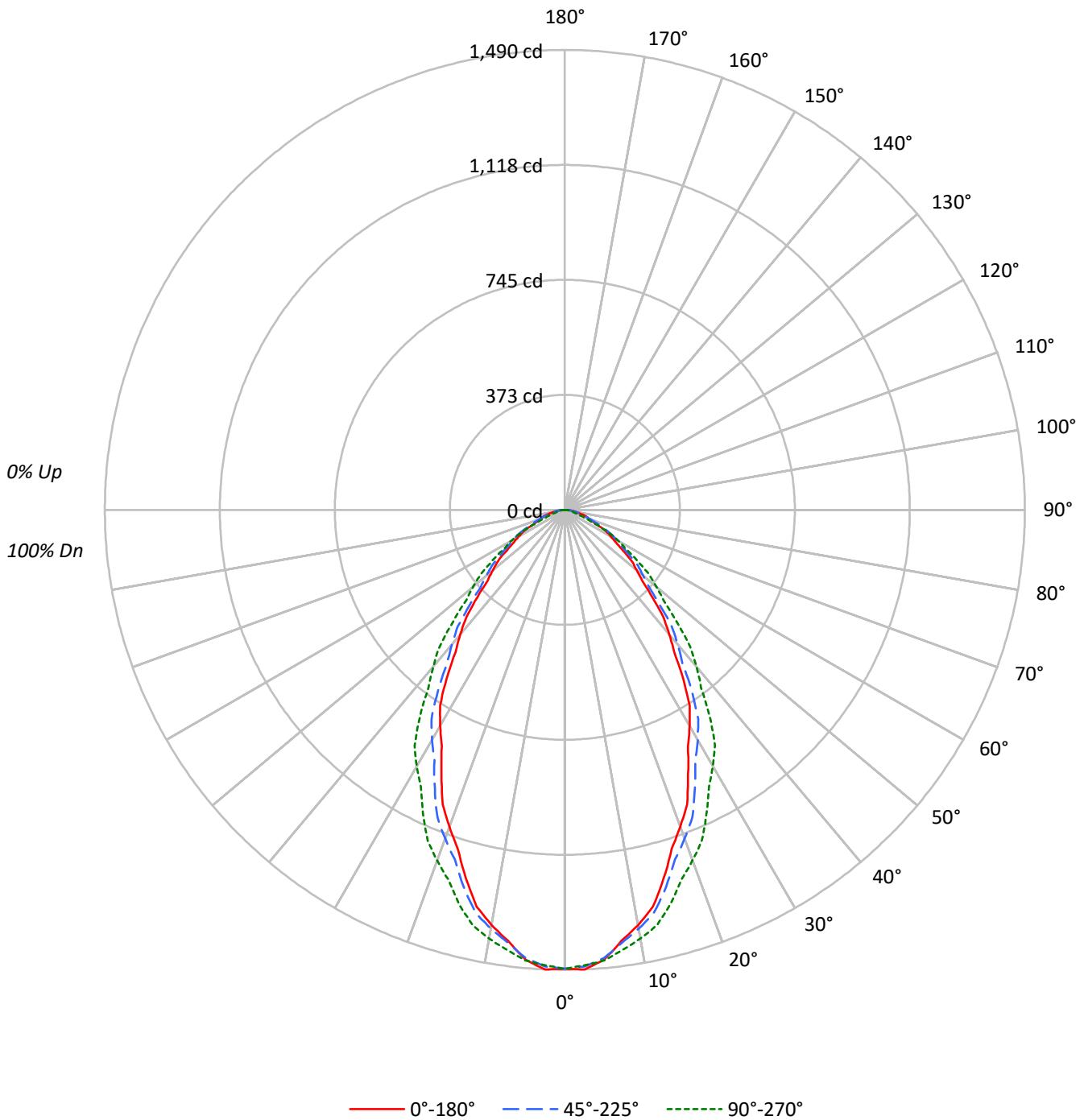
Lumens per Lamp: N/A
Luminaire Lumens: 2166.5 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13718	13718	13718
5°	13546	13498	13576
10°	12798	12915	13213
15°	11814	12089	12631
20°	10728	11132	11869
25°	9623	10147	11058
30°	8604	9167	10217
35°	7524	8068	9221
40°	6333	6836	7983
45°	5227	5677	6665
50°	4363	4757	5553
55°	3704	4082	4586
60°	3166	3539	3659
65°	2521	2976	2364
70°	2236	2323	1443
75°	2071	1882	884
80°	1907	1732	765
85°	1725	1588	625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	6.3
10°-20°	354.7	16.4
20°-30°	459.5	21.2
30°-40°	449.9	20.8
40°-50°	344.4	15.9
50°-60°	229.5	10.6
60°-70°	125.2	5.8
70°-80°	52.2	2.4
80°-90°	14.8	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°	950.5	43.9
0°-40°	1400.4	64.6
0°-60°	1974.3	91.1
0°-90°	2166.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2166.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1463	1448	1457	1461	1466	136
15°	1237	1232	1266	1300	1322	345
25°	945	948	997	1040	1086	435
35°	668	671	716	764	819	415
45°	401	408	435	468	511	312
55°	230	240	254	263	285	209
65°	116	125	136	119	108	120
75°	58	58	53	36	25	62
85°	16	16	15	10	6	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.8	1486.8	1486.8	1486.8	1486.8
2.5°	1490.4	1477.2	1480.5	1480.4	1476.3
5°	1462.6	1448.0	1457.4	1460.8	1465.9
7.5°	1408.4	1397.3	1414.5	1427.3	1437.6
10°	1366.1	1356.5	1378.5	1397.1	1410.4
12.5°	1317.0	1309.0	1336.2	1361.1	1378.6
15°	1236.9	1232.4	1265.6	1300.0	1322.4
17.5°	1151.2	1149.0	1187.1	1227.3	1255.8
20°	1092.7	1092.1	1133.8	1175.7	1208.9
22.5°	1033.8	1035.2	1079.0	1122.6	1160.3
25°	945.3	947.9	996.8	1040.3	1086.2
27.5°	863.5	864.6	915.3	961.2	1010.1
30°	807.6	810.8	860.5	908.0	959.0
32.5°	751.8	755.5	804.1	853.2	905.2
35°	668.0	671.2	716.3	764.5	818.7
37.5°	581.7	586.0	626.0	671.6	724.9
40°	525.8	532.2	567.6	610.5	662.8
42.5°	472.1	480.0	512.8	553.5	600.7
45°	400.6	408.2	435.1	468.1	510.8
47.5°	339.0	347.8	368.5	396.8	433.3
50°	304.0	312.3	331.4	352.4	386.9
52.5°	273.2	281.5	298.5	314.7	344.1
55°	230.3	239.9	253.8	263.4	285.1
57.5°	195.1	204.2	215.3	219.6	232.8
60°	171.6	181.8	191.8	191.3	198.3
62.5°	150.2	158.9	168.8	161.9	162.3
65°	115.5	125.0	136.3	119.1	108.3
67.5°	93.3	95.3	107.0	83.1	70.2
70°	82.9	82.9	86.1	64.3	53.5
72.5°	72.9	72.9	69.9	52.3	41.0
75°	58.1	58.1	52.8	36.3	24.8
77.5°	44.8	44.2	40.4	27.1	18.0
80°	35.9	35.9	32.6	21.4	14.4
82.5°	28.1	28.1	25.3	16.7	10.7
85°	16.3	16.3	15.0	9.7	5.9
87.5°	5.7	5.7	5.2	3.1	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)