

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: P519297

Luminaire Tested: **SQ4-WB-0U-075D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519297
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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

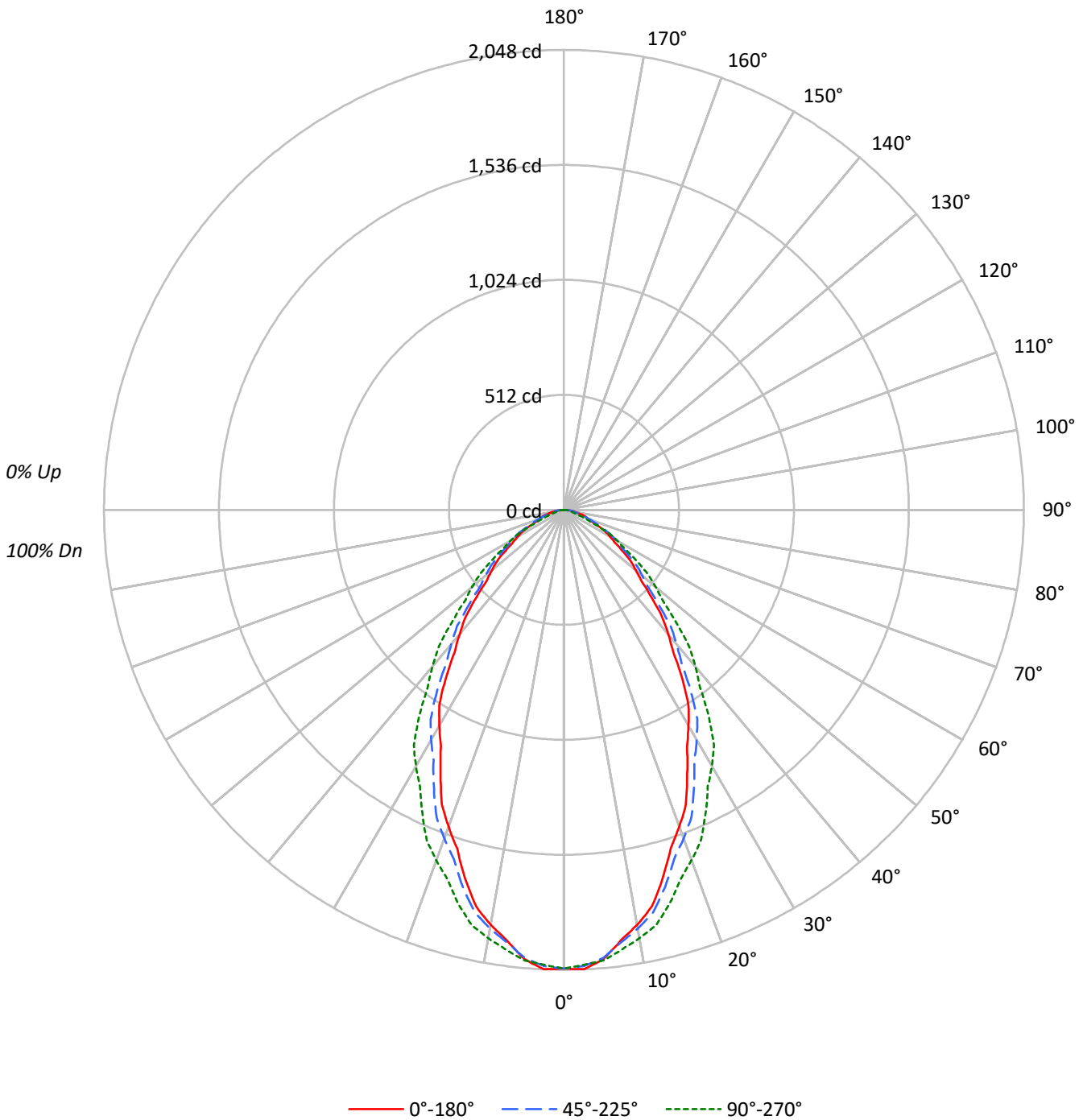
Lumens per Lamp: N/A
Luminaire Lumens: 2976.2 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	12562	12562	12562
5°	12406	12362	12434
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4787	5200	6104
50°	3996	4357	5085
55°	3393	3738	4199
60°	2899	3241	3351
65°	2308	2726	2166
70°	2047	2127	1322
75°	1896	1725	810
80°	1746	1587	698
85°	1581	1454	572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	6.3
10°-20°	487.3	16.4
20°-30°	631.2	21.2
30°-40°	618.1	20.8
40°-50°	473.1	15.9
50°-60°	315.2	10.6
60°-70°	172.0	5.8
70°-80°	71.7	2.4
80°-90°	20.3	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°	1305.8	43.9
0°-40°	1923.9	64.6
0°-60°	2712.2	91.1
0°-90°	2976.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2042	2042	2042	2042	2042	
5°	2009	1989	2002	2007	2014	187
15°	1699	1693	1739	1786	1817	475
25°	1299	1302	1369	1429	1492	597
35°	918	922	984	1050	1125	571
45°	550	561	598	643	702	429
55°	316	330	349	362	392	287
65°	159	172	187	164	149	165
75°	80	80	73	50	34	85
85°	22	22	21	13	8	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2042.4	2042.4	2042.4	2042.4	2042.4
2.5°	2047.5	2029.2	2033.8	2033.7	2028.1
5°	2009.3	1989.1	2002.1	2006.8	2013.8
7.5°	1934.7	1919.5	1943.1	1960.7	1974.9
10°	1876.6	1863.5	1893.7	1919.2	1937.6
12.5°	1809.3	1798.2	1835.6	1869.8	1893.9
15°	1699.2	1693.1	1738.6	1785.9	1816.6
17.5°	1581.4	1578.5	1630.7	1685.9	1725.2
20°	1501.1	1500.3	1557.6	1615.1	1660.7
22.5°	1420.1	1422.0	1482.3	1542.1	1594.0
25°	1298.6	1302.1	1369.4	1429.1	1492.2
27.5°	1186.2	1187.8	1257.4	1320.4	1387.7
30°	1109.5	1113.9	1182.1	1247.3	1317.4
32.5°	1032.8	1037.9	1104.7	1172.1	1243.6
35°	917.7	922.1	984.0	1050.2	1124.7
37.5°	799.1	805.0	860.0	922.6	995.9
40°	722.3	731.1	779.7	838.7	910.5
42.5°	648.5	659.4	704.4	760.4	825.2
45°	550.3	560.8	597.8	643.0	701.7
47.5°	465.7	477.8	506.2	545.1	595.3
50°	417.6	429.0	455.3	484.1	531.4
52.5°	375.3	386.7	410.1	432.3	472.7
55°	316.4	329.5	348.6	361.8	391.6
57.5°	268.0	280.6	295.7	301.7	319.8
60°	235.7	249.7	263.5	262.8	272.4
62.5°	206.3	218.2	231.9	222.4	223.0
65°	158.6	171.8	187.3	163.7	148.8
67.5°	128.2	131.0	147.0	114.1	96.4
70°	113.8	113.8	118.3	88.4	73.5
72.5°	100.2	100.2	96.1	71.9	56.3
75°	79.8	79.8	72.6	49.8	34.1
77.5°	61.5	60.8	55.6	37.2	24.7
80°	49.3	49.3	44.8	29.4	19.7
82.5°	38.5	38.5	34.8	22.9	14.7
85°	22.4	22.4	20.6	13.3	8.1
87.5°	7.9	7.9	7.2	4.3	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)