

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P302072

Luminaire Tested: **ZX-WO-48L840-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-48L840-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (196)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

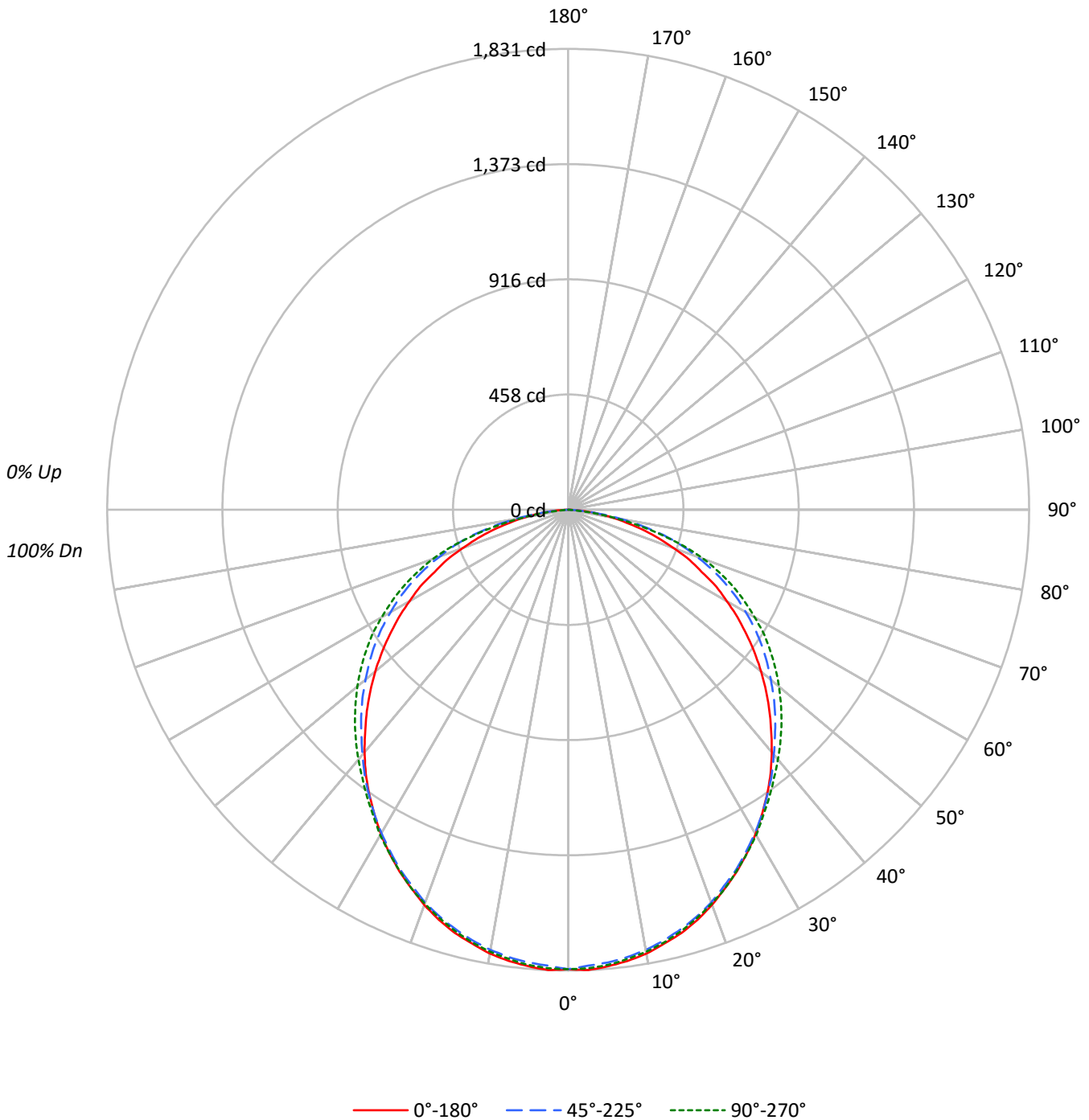
Lumens per Lamp: N/A
Luminaire Lumens: 5113.4 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
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: 25 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4913	4913	4913
5°	4919	4878	4905
10°	4894	4853	4873
15°	4850	4808	4829
20°	4785	4756	4770
25°	4709	4686	4701
30°	4625	4609	4640
35°	4527	4536	4577
40°	4419	4463	4552
45°	4303	4426	4560
50°	4189	4398	4576
55°	4060	4401	4600
60°	3918	4388	4604
65°	3727	4364	4603
70°	3503	4271	4507
75°	3173	4083	3953
80°	2713	3295	2907
85°	1930	1544	463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	3.4
10°-20°	488.9	9.6
20°-30°	729.3	14.3
30°-40°	866.5	16.9
40°-50°	899.3	17.6
50°-60°	831.7	16.3
60°-70°	662.5	13.0
70°-80°	387.8	7.6
80°-90°	75.2	1.5
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°	1390.4	27.2
0°-40°	2256.9	44.1
0°-60°	3987.9	78.0
0°-90°	5113.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5113.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1826	1826	1826	1826	1826	
5°	1821	1816	1806	1816	1816	173
15°	1741	1738	1726	1738	1733	491
25°	1586	1583	1578	1586	1583	730
35°	1378	1378	1381	1391	1393	862
45°	1131	1143	1163	1191	1198	872
55°	865	890	938	970	980	774
65°	585	628	685	713	723	583
75°	305	355	393	388	380	323
85°	62	75	50	25	15	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1825.9	1825.9	1825.9	1825.9	1825.9
2.5°	1830.9	1825.9	1813.4	1825.9	1823.4
5°	1820.9	1815.9	1805.9	1815.9	1815.9
7.5°	1808.4	1803.4	1793.4	1803.4	1800.9
10°	1790.9	1785.9	1775.9	1785.9	1783.4
12.5°	1765.9	1763.4	1753.4	1763.4	1760.9
15°	1740.9	1738.4	1725.9	1738.4	1733.4
17.5°	1708.4	1705.9	1695.9	1703.4	1700.9
20°	1670.9	1665.8	1660.8	1668.4	1665.8
22.5°	1628.3	1625.8	1618.3	1630.8	1628.3
25°	1585.8	1583.3	1578.3	1585.8	1583.3
27.5°	1538.3	1535.8	1530.8	1540.8	1538.3
30°	1488.3	1488.3	1483.3	1495.8	1493.3
32.5°	1433.2	1433.2	1433.2	1440.7	1440.7
35°	1378.2	1378.2	1380.7	1390.7	1393.2
37.5°	1320.7	1320.7	1328.2	1343.2	1343.2
40°	1258.1	1263.1	1270.6	1293.2	1295.7
42.5°	1193.1	1203.1	1215.6	1243.1	1248.1
45°	1130.6	1143.1	1163.1	1190.6	1198.1
47.5°	1065.5	1080.6	1108.1	1138.1	1145.6
50°	1000.5	1020.5	1050.5	1085.6	1093.1
52.5°	933.0	955.5	995.5	1030.5	1038.0
55°	865.4	890.5	938.0	970.5	980.5
57.5°	797.9	825.4	877.9	910.5	923.0
60°	727.9	757.9	815.4	845.4	855.4
62.5°	662.8	695.4	752.9	780.4	790.4
65°	585.3	627.8	685.3	712.9	722.9
67.5°	522.8	562.8	615.3	645.3	647.8
70°	445.2	495.3	542.8	567.8	572.8
72.5°	375.2	425.2	472.7	482.7	482.7
75°	305.2	355.2	392.7	387.7	380.2
77.5°	235.1	285.1	305.2	287.6	280.1
80°	175.1	217.6	212.6	195.1	187.6
82.5°	115.1	147.6	125.1	105.1	95.0
85°	62.5	75.0	50.0	25.0	15.0
87.5°	22.5	15.0	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)