

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: P302060

Luminaire Tested: **ZX-WO-48L830-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302060
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-48L830-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (196)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

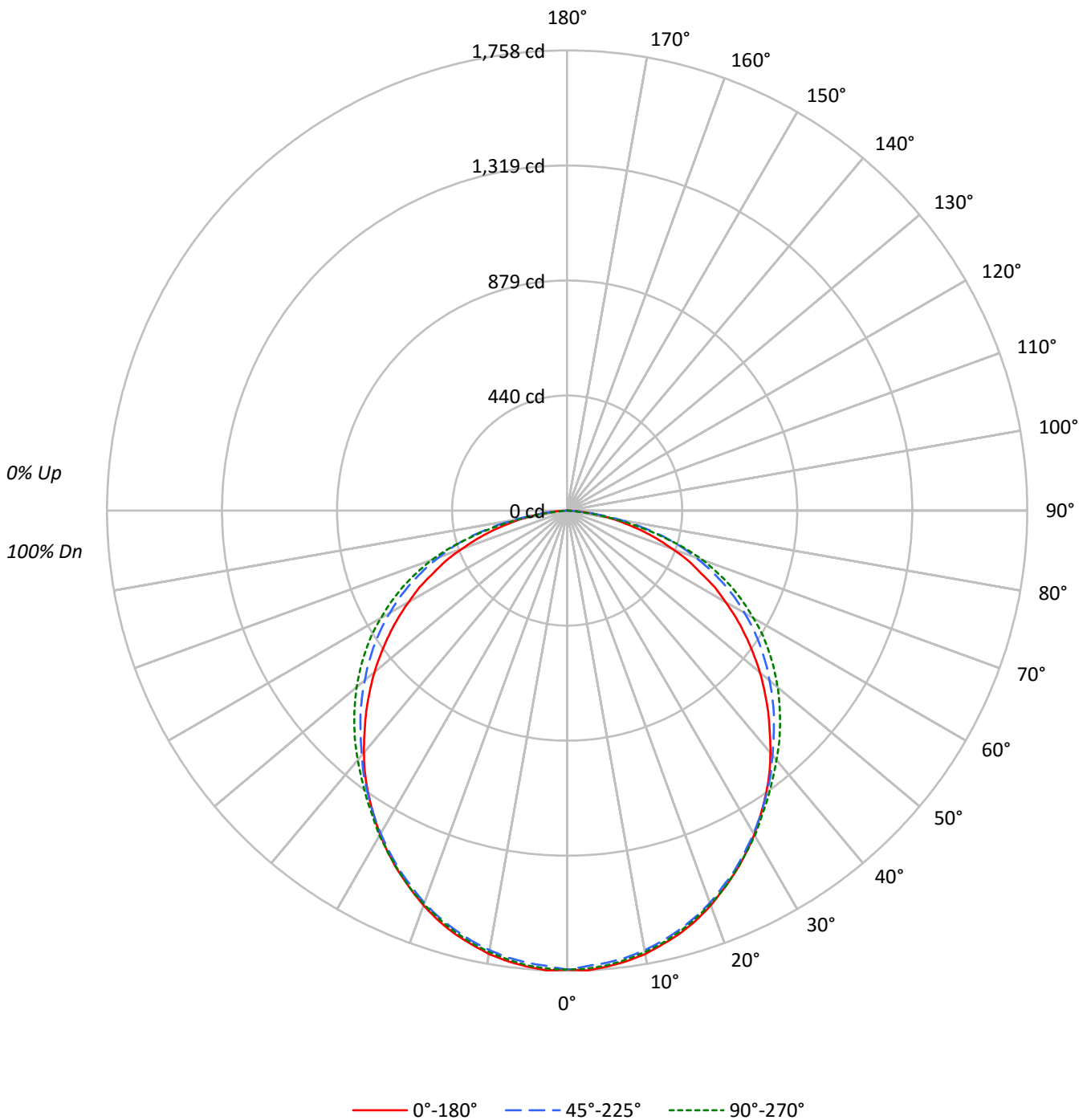
Lumens per Lamp: N/A
Luminaire Lumens: 4911.0 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	4719	4719	4719
5°	4724	4685	4711
10°	4700	4661	4680
15°	4658	4618	4638
20°	4595	4568	4582
25°	4522	4501	4515
30°	4442	4427	4456
35°	4348	4356	4396
40°	4245	4287	4371
45°	4132	4251	4379
50°	4023	4224	4395
55°	3900	4227	4418
60°	3763	4215	4422
65°	3579	4191	4421
70°	3364	4102	4328
75°	3047	3922	3796
80°	2607	3164	2793
85°	1856	1482	445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	3.4
10°-20°	469.6	9.6
20°-30°	700.4	14.3
30°-40°	832.2	16.9
40°-50°	863.7	17.6
50°-60°	798.8	16.3
60°-70°	636.3	13.0
70°-80°	372.4	7.6
80°-90°	72.2	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°	1335.4	27.2
0°-40°	2167.5	44.1
0°-60°	3830.0	78.0
0°-90°	4911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1749	1744	1734	1744	1744	166
15°	1672	1670	1658	1670	1665	471
25°	1523	1521	1516	1523	1521	701
35°	1324	1324	1326	1336	1338	828
45°	1086	1098	1117	1144	1151	838
55°	831	855	901	932	942	743
65°	562	603	658	685	694	560
75°	293	341	377	372	365	310
85°	60	72	48	24	14	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.7	1753.7	1753.7	1753.7	1753.7
2.5°	1758.5	1753.7	1741.7	1753.7	1751.3
5°	1748.9	1744.1	1734.4	1744.1	1744.1
7.5°	1736.8	1732.0	1722.4	1732.0	1729.6
10°	1720.0	1715.2	1705.6	1715.2	1712.8
12.5°	1696.0	1693.6	1684.0	1693.6	1691.2
15°	1672.0	1669.6	1657.6	1669.6	1664.8
17.5°	1640.8	1638.4	1628.7	1636.0	1633.5
20°	1604.7	1599.9	1595.1	1602.3	1599.9
22.5°	1563.9	1561.5	1554.3	1566.3	1563.9
25°	1523.0	1520.6	1515.8	1523.0	1520.6
27.5°	1477.4	1475.0	1470.2	1479.8	1477.4
30°	1429.4	1429.4	1424.6	1436.6	1434.2
32.5°	1376.5	1376.5	1376.5	1383.7	1383.7
35°	1323.7	1323.7	1326.1	1335.7	1338.1
37.5°	1268.4	1268.4	1275.6	1290.0	1290.0
40°	1208.3	1213.2	1220.4	1242.0	1244.4
42.5°	1145.9	1155.5	1167.5	1193.9	1198.7
45°	1085.8	1097.8	1117.1	1143.5	1150.7
47.5°	1023.4	1037.8	1064.2	1093.0	1100.2
50°	960.9	980.1	1009.0	1042.6	1049.8
52.5°	896.0	917.7	956.1	989.7	996.9
55°	831.2	855.2	900.9	932.1	941.7
57.5°	766.3	792.8	843.2	874.4	886.4
60°	699.1	727.9	783.1	812.0	821.6
62.5°	636.6	667.8	723.1	749.5	759.1
65°	562.1	603.0	658.2	684.6	694.3
67.5°	502.1	540.5	591.0	619.8	622.2
70°	427.6	475.7	521.3	545.3	550.1
72.5°	360.3	408.4	454.0	463.6	463.6
75°	293.1	341.1	377.2	372.4	365.1
77.5°	225.8	273.9	293.1	276.3	269.1
80°	168.2	209.0	204.2	187.4	180.2
82.5°	110.5	141.7	120.1	100.9	91.3
85°	60.1	72.1	48.0	24.0	14.4
87.5°	21.6	14.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)