

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: P302416

Luminaire Tested: **ZX-WO-60L830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-60L830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5648.5 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

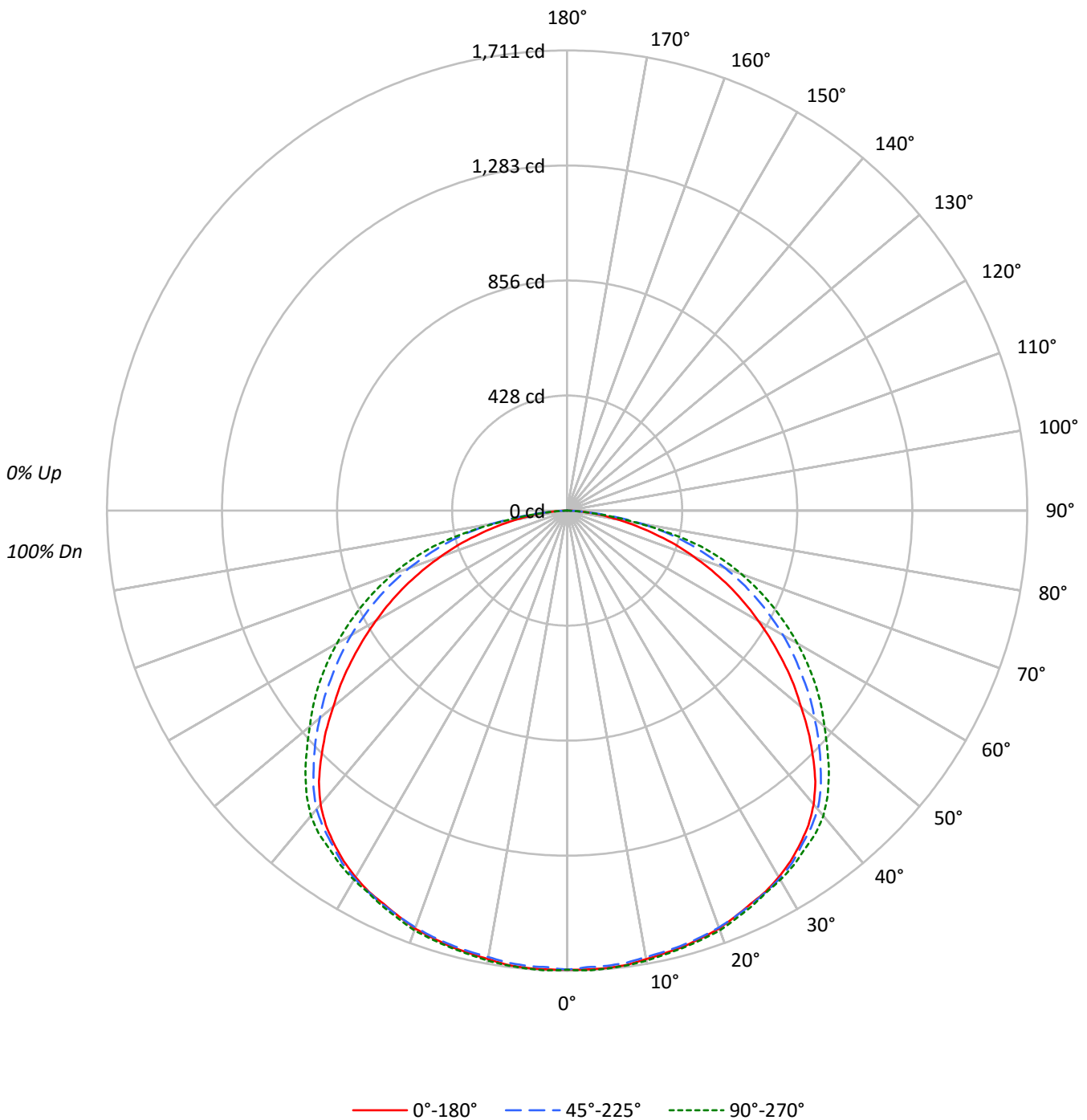
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68					68			
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57					57			
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36					36			
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28					28			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25					25			
10	52	38	30	25	50	37	30	24	36	29	24	35	29	24	35	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2297	2297	2297
5°	2306	2295	2309
10°	2314	2303	2322
15°	2337	2328	2342
20°	2368	2362	2379
25°	2396	2402	2410
30°	2445	2454	2464
35°	2483	2496	2526
40°	2505	2547	2603
45°	2459	2535	2619
50°	2376	2514	2614
55°	2302	2499	2644
60°	2211	2496	2662
65°	2115	2483	2686
70°	1970	2456	2715
75°	1763	2396	2675
80°	1468	2210	2056
85°	1108	1294	1078



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	2.9
10°-20°	474.5	8.4
20°-30°	748.4	13.2
30°-40°	955.5	16.9
40°-50°	1029.2	18.2
50°-60°	948.3	16.8
60°-70°	758.5	13.4
70°-80°	465.5	8.2
80°-90°	106.2	1.9
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°	1385.4	24.5
0°-40°	2340.8	41.4
0°-60°	4318.3	76.5
0°-90°	5648.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5648.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1707	1707	1707	1707	1707	
5°	1707	1707	1699	1709	1709	163
15°	1678	1680	1672	1682	1682	474
25°	1614	1616	1618	1626	1624	746
35°	1512	1516	1520	1536	1538	946
45°	1292	1306	1332	1366	1376	995
55°	981	1007	1065	1113	1127	877
65°	664	708	780	828	844	656
75°	339	393	461	503	515	361
85°	72	96	84	74	70	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1707.4	1707.4	1707.4	1707.4	1707.4
2.5°	1707.4	1709.4	1699.4	1709.4	1711.4
5°	1707.4	1707.4	1699.4	1709.4	1709.4
7.5°	1703.4	1703.4	1695.5	1705.4	1705.4
10°	1693.5	1693.5	1685.5	1695.5	1699.4
12.5°	1685.5	1685.5	1679.5	1689.5	1689.5
15°	1677.5	1679.5	1671.5	1681.5	1681.5
17.5°	1665.5	1665.5	1661.5	1669.5	1671.5
20°	1653.6	1653.6	1649.6	1659.6	1661.5
22.5°	1633.6	1635.6	1633.6	1641.6	1641.6
25°	1613.7	1615.7	1617.7	1625.6	1623.6
27.5°	1597.7	1599.7	1599.7	1607.7	1601.7
30°	1573.8	1579.8	1579.8	1583.8	1585.7
32.5°	1545.9	1553.8	1555.8	1563.8	1565.8
35°	1511.9	1515.9	1519.9	1535.9	1537.9
37.5°	1474.0	1484.0	1488.0	1510.0	1515.9
40°	1426.2	1438.1	1450.1	1478.0	1482.0
42.5°	1366.3	1380.3	1396.3	1426.2	1434.2
45°	1292.5	1306.5	1332.4	1366.3	1376.3
47.5°	1216.7	1232.7	1268.6	1304.5	1312.5
50°	1135.0	1158.9	1200.8	1242.7	1248.7
52.5°	1061.2	1085.1	1137.0	1180.8	1190.8
55°	981.4	1007.3	1065.1	1113.0	1127.0
57.5°	901.6	935.5	997.3	1045.2	1059.2
60°	821.8	857.7	927.5	971.4	989.3
62.5°	744.0	783.9	853.7	903.6	917.5
65°	664.2	708.1	779.9	827.8	843.7
67.5°	582.4	628.3	704.1	752.0	767.9
70°	500.7	552.5	624.3	676.2	690.1
72.5°	422.9	470.7	542.5	588.4	606.4
75°	339.1	392.9	460.8	502.7	514.6
77.5°	263.3	315.2	375.0	400.9	396.9
80°	189.5	243.3	285.2	277.3	265.3
82.5°	127.7	171.5	177.5	165.6	161.6
85°	71.8	95.7	83.8	73.8	69.8
87.5°	29.9	25.9	14.0	6.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)