

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: P302418

Luminaire Tested: **ZX-WO-70L830-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302418  
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-70L830-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: 6594.7 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

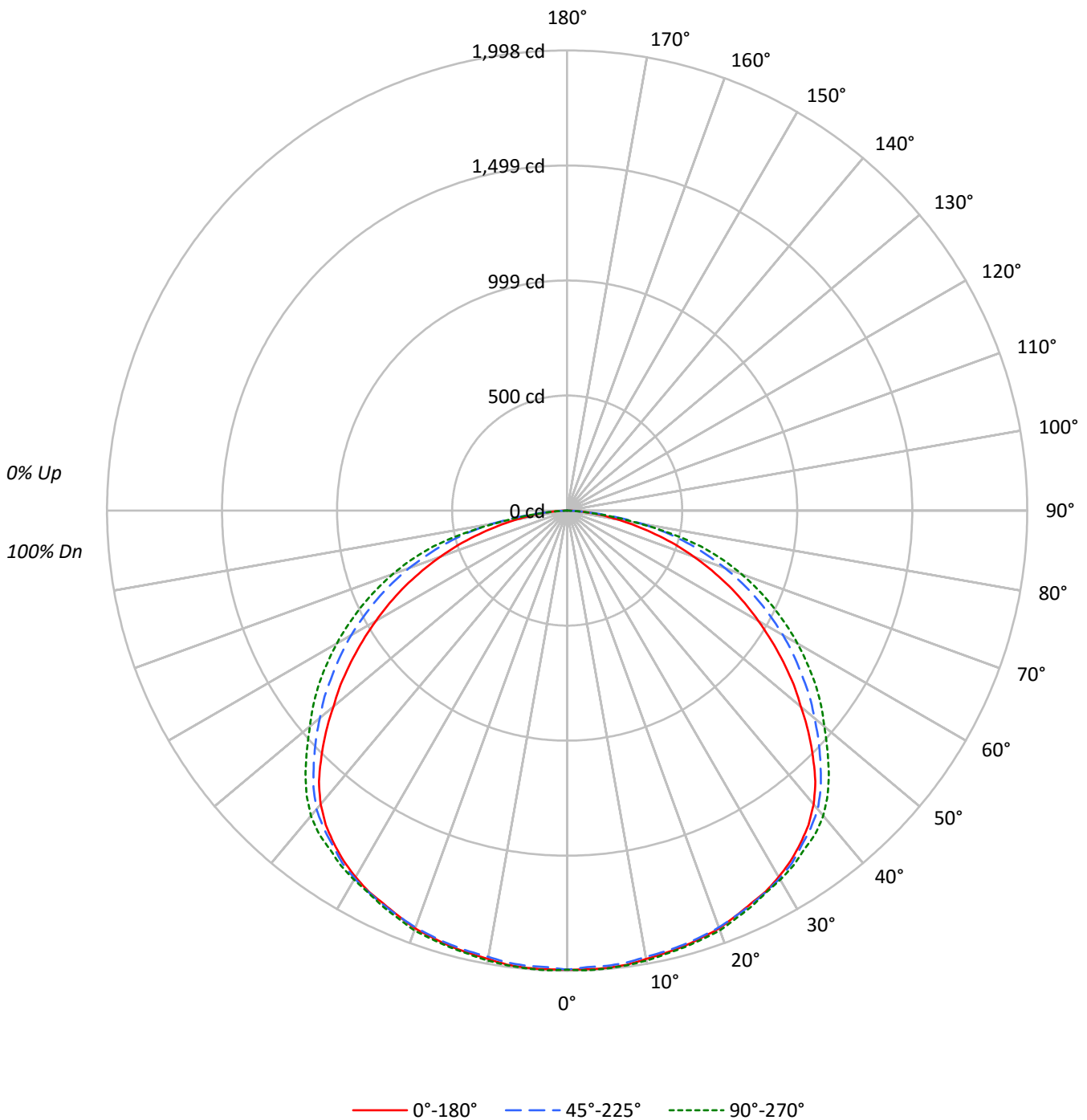
Input Watts (W): 51  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2682	2682	2682
5°	2692	2680	2695
10°	2701	2688	2711
15°	2728	2718	2735
20°	2764	2758	2778
25°	2797	2804	2814
30°	2855	2866	2876
35°	2899	2915	2949
40°	2925	2974	3039
45°	2871	2960	3057
50°	2774	2934	3051
55°	2688	2917	3086
60°	2582	2914	3108
65°	2469	2899	3136
70°	2299	2867	3170
75°	2058	2796	3123
80°	1714	2580	2400
85°	1294	1510	1258



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	2.9
10°-20°	554.0	8.4
20°-30°	873.8	13.2
30°-40°	1115.5	16.9
40°-50°	1201.6	18.2
50°-60°	1107.1	16.8
60°-70°	885.5	13.4
70°-80°	543.5	8.2
80°-90°	124.0	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°	1617.4	24.5
0°-40°	2732.9	41.4
0°-60°	5041.7	76.5
0°-90°	6594.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6594.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1993	1993	1993	1993	1993	
5°	1993	1993	1984	1996	1996	190
15°	1958	1961	1952	1963	1963	554
25°	1884	1886	1889	1898	1896	871
35°	1765	1770	1774	1793	1796	1104
45°	1509	1525	1556	1595	1607	1162
55°	1146	1176	1244	1299	1316	1024
65°	776	827	910	966	985	766
75°	396	459	538	587	601	422
85°	84	112	98	86	82	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1993.4	1993.4	1993.4	1993.4	1993.4
2.5°	1993.4	1995.7	1984.1	1995.7	1998.1
5°	1993.4	1993.4	1984.1	1995.7	1995.7
7.5°	1988.8	1988.8	1979.4	1991.1	1991.1
10°	1977.1	1977.1	1967.8	1979.4	1984.1
12.5°	1967.8	1967.8	1960.8	1972.5	1972.5
15°	1958.5	1960.8	1951.5	1963.1	1963.1
17.5°	1944.5	1944.5	1939.9	1949.2	1951.5
20°	1930.5	1930.5	1925.9	1937.5	1939.9
22.5°	1907.2	1909.6	1907.2	1916.6	1916.6
25°	1884.0	1886.3	1888.6	1897.9	1895.6
27.5°	1865.3	1867.7	1867.7	1877.0	1870.0
30°	1837.4	1844.4	1844.4	1849.0	1851.4
32.5°	1804.8	1814.1	1816.4	1825.7	1828.1
35°	1765.2	1769.9	1774.5	1793.1	1795.5
37.5°	1720.9	1732.6	1737.3	1762.9	1769.9
40°	1665.1	1679.0	1693.0	1725.6	1730.3
42.5°	1595.2	1611.5	1630.1	1665.1	1674.4
45°	1509.0	1525.3	1555.6	1595.2	1606.8
47.5°	1420.5	1439.2	1481.1	1523.0	1532.3
50°	1325.1	1353.0	1401.9	1450.8	1457.8
52.5°	1238.9	1266.8	1327.4	1378.6	1390.3
55°	1145.7	1176.0	1243.6	1299.4	1315.7
57.5°	1052.6	1092.2	1164.4	1220.3	1236.6
60°	959.4	1001.4	1082.9	1134.1	1155.1
62.5°	868.6	915.2	996.7	1054.9	1071.2
65°	775.5	826.7	910.5	966.4	985.1
67.5°	680.0	733.6	822.1	877.9	896.6
70°	584.5	645.1	728.9	789.4	805.7
72.5°	493.7	549.6	633.4	687.0	707.9
75°	395.9	458.8	537.9	586.8	600.8
77.5°	307.4	367.9	437.8	468.1	463.4
80°	221.2	284.1	333.0	323.7	309.7
82.5°	149.0	200.3	207.3	193.3	188.6
85°	83.8	111.8	97.8	86.2	81.5
87.5°	34.9	30.3	16.3	7.0	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)