

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: P302417

Luminaire Tested: **ZX-WO-65L830-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302417  
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-65L830-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: 6193.0 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

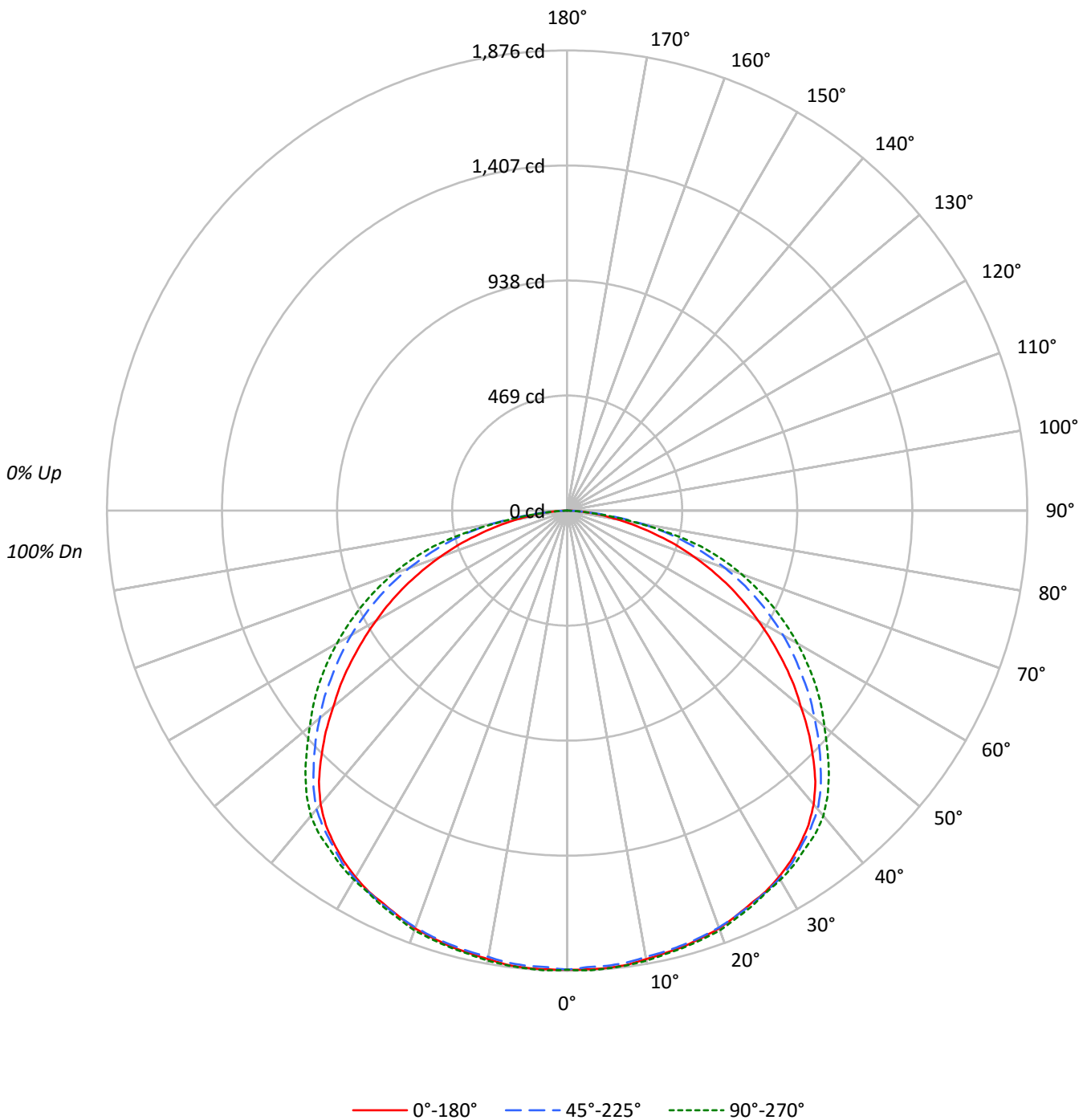
Input Watts (W): 48.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2519	2519	2519
5°	2528	2516	2531
10°	2537	2525	2546
15°	2562	2553	2568
20°	2596	2590	2608
25°	2627	2633	2643
30°	2681	2691	2701
35°	2723	2737	2769
40°	2746	2793	2854
45°	2696	2780	2871
50°	2605	2756	2866
55°	2524	2739	2898
60°	2425	2736	2919
65°	2318	2722	2945
70°	2159	2693	2977
75°	1933	2626	2933
80°	1610	2423	2254
85°	1215	1419	1181



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.1	2.9
10°-20°	520.3	8.4
20°-30°	820.5	13.2
30°-40°	1047.6	16.9
40°-50°	1128.4	18.2
50°-60°	1039.7	16.8
60°-70°	831.6	13.4
70°-80°	510.4	8.2
80°-90°	116.4	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°	1518.9	24.5
0°-40°	2566.5	41.4
0°-60°	4734.5	76.5
0°-90°	6193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6193.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1872	1872	1863	1874	1874	178
15°	1839	1841	1833	1844	1844	520
25°	1769	1771	1774	1782	1780	818
35°	1658	1662	1666	1684	1686	1037
45°	1417	1432	1461	1498	1509	1091
55°	1076	1104	1168	1220	1236	962
65°	728	776	855	908	925	719
75°	372	431	505	551	564	396
85°	79	105	92	81	76	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1872.0	1872.0	1872.0	1872.0	1872.0
2.5°	1872.0	1874.2	1863.2	1874.2	1876.4
5°	1872.0	1872.0	1863.2	1874.2	1874.2
7.5°	1867.6	1867.6	1858.9	1869.8	1869.8
10°	1856.7	1856.7	1847.9	1858.9	1863.2
12.5°	1847.9	1847.9	1841.4	1852.3	1852.3
15°	1839.2	1841.4	1832.6	1843.6	1843.6
17.5°	1826.1	1826.1	1821.7	1830.4	1832.6
20°	1812.9	1812.9	1808.6	1819.5	1821.7
22.5°	1791.1	1793.3	1791.1	1799.8	1799.8
25°	1769.2	1771.4	1773.6	1782.3	1780.1
27.5°	1751.7	1753.9	1753.9	1762.6	1756.1
30°	1725.5	1732.0	1732.0	1736.4	1738.6
32.5°	1694.9	1703.6	1705.8	1714.5	1716.7
35°	1657.7	1662.0	1666.4	1683.9	1686.1
37.5°	1616.1	1627.1	1631.4	1655.5	1662.0
40°	1563.6	1576.8	1589.9	1620.5	1624.9
42.5°	1498.0	1513.3	1530.8	1563.6	1572.4
45°	1417.1	1432.4	1460.9	1498.0	1509.0
47.5°	1334.0	1351.5	1390.9	1430.2	1439.0
50°	1244.3	1270.6	1316.5	1362.4	1369.0
52.5°	1163.4	1189.7	1246.5	1294.6	1305.6
55°	1076.0	1104.4	1167.8	1220.3	1235.6
57.5°	988.5	1025.7	1093.5	1145.9	1161.2
60°	901.0	940.4	1016.9	1065.0	1084.7
62.5°	815.7	859.5	936.0	990.7	1006.0
65°	728.2	776.4	855.1	907.6	925.1
67.5°	638.6	688.9	772.0	824.5	842.0
70°	548.9	605.8	684.5	741.4	756.7
72.5°	463.6	516.1	594.8	645.1	664.8
75°	371.8	430.8	505.2	551.1	564.2
77.5°	288.7	345.5	411.1	439.6	435.2
80°	207.8	266.8	312.7	304.0	290.9
82.5°	140.0	188.1	194.6	181.5	177.1
85°	78.7	105.0	91.9	80.9	76.5
87.5°	32.8	28.4	15.3	6.6	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)