

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: P302350

Luminaire Tested: **ZX-WO-70H940-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-70H940-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (588)4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

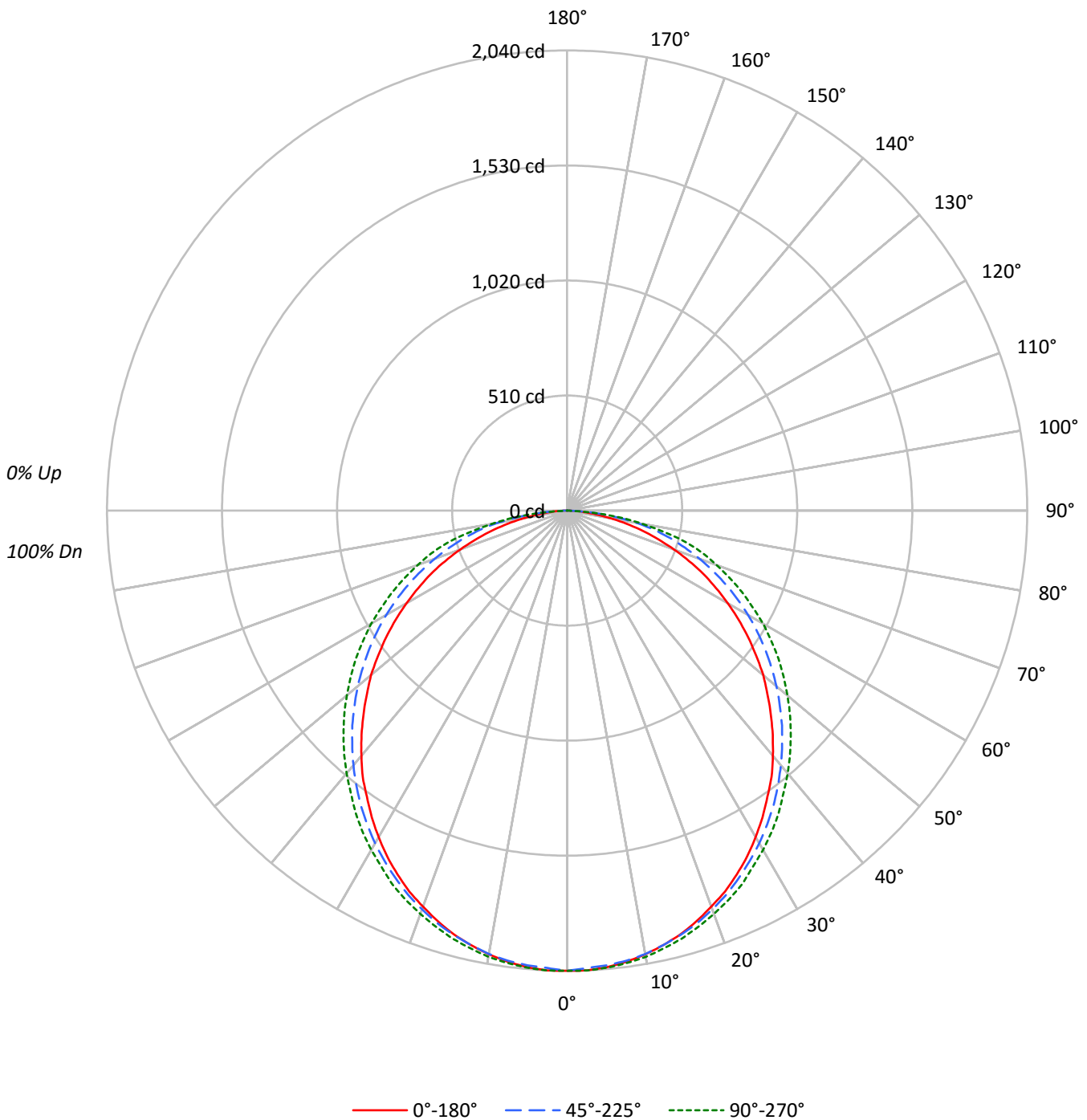
Lumens per Lamp: N/A  
Luminaire Lumens: 5938.9 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 49.9  
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	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

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

	0°	45°	90°
0°	2745	2745	2745
5°	2744	2733	2747
10°	2730	2727	2744
15°	2709	2712	2736
20°	2675	2694	2724
25°	2642	2670	2717
30°	2597	2646	2699
35°	2543	2620	2686
40°	2492	2589	2671
45°	2430	2563	2668
50°	2375	2535	2668
55°	2299	2513	2682
60°	2214	2494	2700
65°	2127	2472	2721
70°	1986	2453	2770
75°	1808	2459	2856
80°	1495	2432	2629
85°	1145	1931	1866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.9	3.2
10°-20°	550.8	9.3
20°-30°	831.0	14.0
30°-40°	997.6	16.8
40°-50°	1037.5	17.5
50°-60°	954.2	16.1
60°-70°	760.5	12.8
70°-80°	481.9	8.1
80°-90°	132.5	2.2
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°	1574.7	26.5
0°-40°	2572.3	43.3
0°-60°	4564.0	76.8
0°-90°	5938.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5938.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2040	2040	2040	2040	2040	
5°	2032	2032	2023	2034	2034	193
15°	1945	1945	1947	1962	1964	548
25°	1780	1788	1799	1824	1830	820
35°	1548	1565	1595	1625	1635	970
45°	1277	1304	1347	1389	1402	986
55°	980	1012	1071	1124	1143	876
65°	668	702	776	836	855	659
75°	348	392	473	532	549	366
85°	74	106	125	123	121	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2040.3	2040.3	2040.3	2040.3	2040.3
2.5°	2040.3	2040.3	2029.7	2040.3	2040.3
5°	2031.9	2031.9	2023.4	2034.0	2034.0
7.5°	2017.0	2019.1	2012.8	2023.4	2023.4
10°	1997.9	2000.0	1995.8	2008.5	2008.5
12.5°	1972.5	1974.6	1972.5	1987.3	1987.3
15°	1944.9	1944.9	1947.0	1961.9	1964.0
17.5°	1908.8	1913.1	1917.3	1934.3	1934.3
20°	1868.5	1874.9	1881.3	1902.5	1902.5
22.5°	1828.2	1834.6	1843.1	1864.3	1868.5
25°	1779.5	1787.9	1798.6	1824.0	1830.4
27.5°	1728.6	1734.9	1751.9	1779.5	1781.6
30°	1671.3	1681.9	1703.1	1730.7	1737.0
32.5°	1611.9	1626.8	1650.1	1681.9	1688.3
35°	1548.3	1565.2	1594.9	1624.6	1635.2
37.5°	1488.9	1501.6	1535.6	1569.5	1575.9
40°	1418.9	1438.0	1474.0	1512.2	1520.7
42.5°	1348.9	1370.1	1410.4	1448.6	1463.4
45°	1276.8	1304.4	1346.8	1389.2	1401.9
47.5°	1204.7	1234.4	1278.9	1325.6	1340.4
50°	1134.7	1162.3	1211.1	1259.8	1274.7
52.5°	1056.2	1088.0	1141.1	1194.1	1208.9
55°	979.9	1011.7	1071.1	1124.1	1143.2
57.5°	901.4	937.5	999.0	1054.1	1071.1
60°	822.9	861.1	926.8	982.0	1003.2
62.5°	744.4	780.5	852.6	907.8	926.8
65°	668.1	702.0	776.3	835.6	854.7
67.5°	585.4	623.6	699.9	761.4	778.4
70°	504.8	543.0	623.6	687.2	704.1
72.5°	422.1	466.6	547.2	608.7	632.0
75°	347.8	392.4	473.0	532.4	549.3
77.5°	269.4	313.9	396.6	439.0	441.2
80°	193.0	243.9	313.9	330.9	339.3
82.5°	127.3	176.0	216.3	237.5	237.5
85°	74.2	106.0	125.1	123.0	120.9
87.5°	27.6	36.1	29.7	21.2	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)