

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: P302464

Luminaire Tested: **ZX-WO-50L940-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302464  
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-50L940-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (224)4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

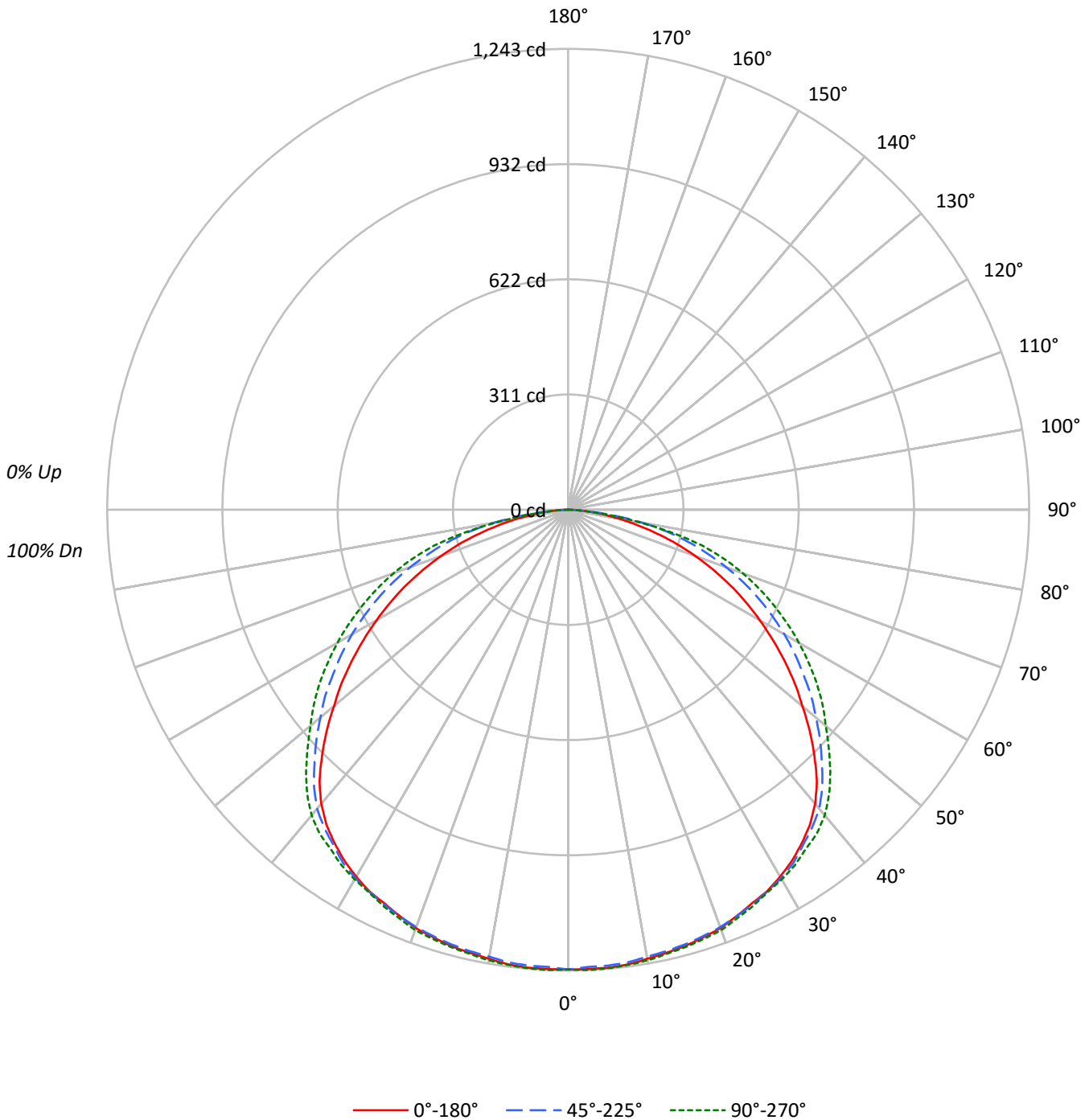
Lumens per Lamp: N/A  
Luminaire Lumens: 4102.5 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	1669	1669	1669
5°	1675	1667	1677
10°	1680	1673	1686
15°	1697	1691	1701
20°	1720	1715	1728
25°	1740	1744	1751
30°	1776	1783	1789
35°	1804	1813	1835
40°	1819	1850	1891
45°	1786	1841	1902
50°	1725	1825	1898
55°	1672	1815	1920
60°	1606	1813	1934
65°	1536	1803	1951
70°	1430	1784	1972
75°	1280	1740	1943
80°	1066	1605	1493
85°	806	939	783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.0	2.9
10°-20°	344.6	8.4
20°-30°	543.6	13.2
30°-40°	693.9	16.9
40°-50°	747.5	18.2
50°-60°	688.7	16.8
60°-70°	550.9	13.4
70°-80°	338.1	8.2
80°-90°	77.1	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°	1006.2	24.5
0°-40°	1700.2	41.4
0°-60°	3136.4	76.5
0°-90°	4102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1240	1240	1234	1242	1242	118
15°	1218	1220	1214	1221	1221	345
25°	1172	1174	1175	1181	1179	542
35°	1098	1101	1104	1116	1117	687
45°	939	949	968	992	1000	723
55°	713	732	774	808	818	637
65°	482	514	566	601	613	476
75°	246	285	335	365	374	262
85°	52	70	61	54	51	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1240.1	1240.1	1240.1	1240.1	1240.1
2.5°	1240.1	1241.5	1234.3	1241.5	1243.0
5°	1240.1	1240.1	1234.3	1241.5	1241.5
7.5°	1237.2	1237.2	1231.4	1238.6	1238.6
10°	1230.0	1230.0	1224.2	1231.4	1234.3
12.5°	1224.2	1224.2	1219.8	1227.1	1227.1
15°	1218.4	1219.8	1214.0	1221.3	1221.3
17.5°	1209.7	1209.7	1206.8	1212.6	1214.0
20°	1201.0	1201.0	1198.1	1205.3	1206.8
22.5°	1186.5	1187.9	1186.5	1192.3	1192.3
25°	1172.0	1173.5	1174.9	1180.7	1179.2
27.5°	1160.4	1161.9	1161.9	1167.7	1163.3
30°	1143.0	1147.4	1147.4	1150.3	1151.7
32.5°	1122.7	1128.5	1130.0	1135.8	1137.2
35°	1098.1	1101.0	1103.9	1115.5	1117.0
37.5°	1070.6	1077.8	1080.7	1096.7	1101.0
40°	1035.8	1044.5	1053.2	1073.5	1076.4
42.5°	992.4	1002.5	1014.1	1035.8	1041.6
45°	938.8	948.9	967.7	992.4	999.6
47.5°	883.7	895.3	921.4	947.5	953.3
50°	824.3	841.7	872.1	902.5	906.9
52.5°	770.7	788.1	825.8	857.6	864.9
55°	712.8	731.6	773.6	808.4	818.5
57.5°	654.8	679.4	724.4	759.1	769.3
60°	596.9	622.9	673.6	705.5	718.6
62.5°	540.4	569.3	620.0	656.3	666.4
65°	482.4	514.3	566.4	601.2	612.8
67.5°	423.0	456.3	511.4	546.2	557.8
70°	363.6	401.3	453.4	491.1	501.3
72.5°	307.1	341.9	394.0	427.4	440.4
75°	246.3	285.4	334.7	365.1	373.8
77.5°	191.2	228.9	272.4	291.2	288.3
80°	137.6	176.7	207.2	201.4	192.7
82.5°	92.7	124.6	128.9	120.2	117.3
85°	52.2	69.5	60.8	53.6	50.7
87.5°	21.7	18.8	10.1	4.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)