

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: P302463

Luminaire Tested: **ZX-WO-45L940-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302463  
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-45L940-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (168)4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3743.4 lumens  
Efficiency: N/A  
Efficacy: 106.0 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

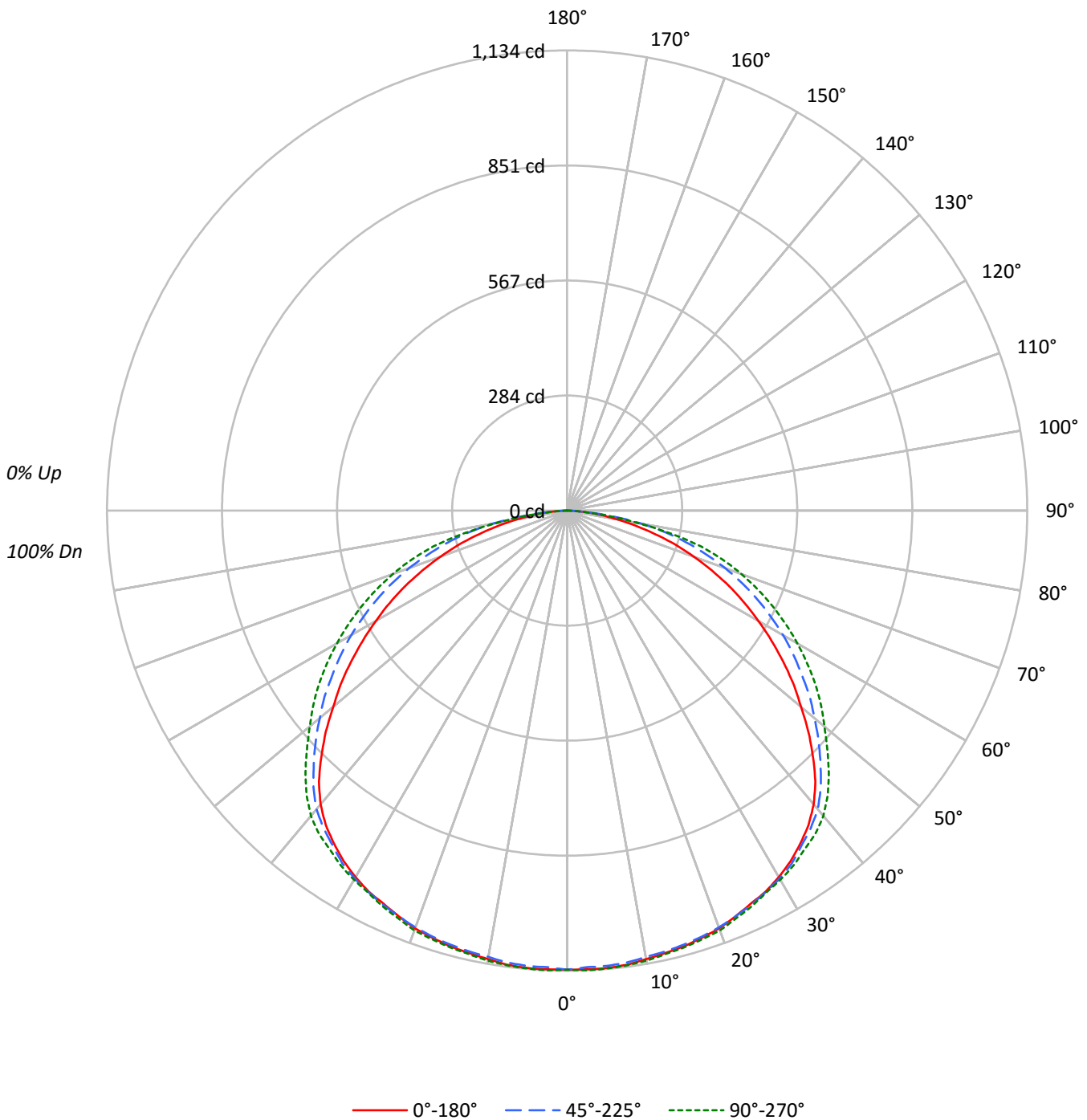
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P302463

CATALOG NUMBER: ZX-WO-45L940-UNV-24-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P302463

CATALOG NUMBER: ZX-WO-45L940-UNV-24-STD

**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°	1522	1522	1522
5°	1528	1521	1530
10°	1533	1526	1539
15°	1549	1543	1552
20°	1569	1565	1577
25°	1588	1592	1597
30°	1620	1627	1633
35°	1646	1655	1674
40°	1660	1688	1725
45°	1630	1680	1736
50°	1575	1666	1732
55°	1526	1656	1752
60°	1466	1654	1764
65°	1401	1646	1780
70°	1305	1628	1799
75°	1168	1588	1773
80°	973	1464	1362
85°	735	857	715



TEST NUMBER: P302463

CATALOG NUMBER: ZX-WO-45L940-UNV-24-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	2.9
10°-20°	314.5	8.4
20°-30°	496.0	13.2
30°-40°	633.2	16.9
40°-50°	682.1	18.2
50°-60°	628.5	16.8
60°-70°	502.7	13.4
70°-80°	308.5	8.2
80°-90°	70.4	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°	918.1	24.5
0°-40°	1551.3	41.4
0°-60°	2861.9	76.4
0°-90°	3743.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3743.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1132	1132	1126	1133	1133	108
15°	1112	1113	1108	1114	1114	314
25°	1069	1071	1072	1077	1076	495
35°	1002	1005	1007	1018	1019	627
45°	857	866	883	906	912	660
55°	650	668	706	738	747	581
65°	440	469	517	549	559	435
75°	225	260	305	333	341	239
85°	48	64	56	49	46	58
90°	0	0	0	0	0	



TEST NUMBER: P302463

CATALOG NUMBER: ZX-WO-45L940-UNV-24-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1131.5	1131.5	1131.5	1131.5	<i>1131.5</i>
2.5°	<i>1131.5</i>	<i>1132.9</i>	<i>1126.3</i>	<i>1132.9</i>	<i>1134.2</i>
5°	1131.5	1131.5	1126.3	1132.9	<i>1132.9</i>
7.5°	1128.9	1128.9	1123.6	1130.2	<i>1130.2</i>
10°	1122.3	1122.3	1117.0	1123.6	<i>1126.3</i>
12.5°	1117.0	1117.0	1113.0	1119.6	<i>1119.6</i>
15°	1111.7	1113.0	1107.7	1114.4	<i>1114.4</i>
17.5°	1103.8	1103.8	1101.1	1106.4	<i>1107.7</i>
20°	1095.9	1095.9	1093.2	1099.8	<i>1101.1</i>
22.5°	1082.6	1084.0	1082.6	1087.9	<i>1087.9</i>
25°	1069.4	1070.7	1072.1	1077.3	<i>1076.0</i>
27.5°	1058.8	1060.2	1060.2	1065.4	<i>1061.5</i>
30°	1043.0	1046.9	1046.9	1049.6	<i>1050.9</i>
32.5°	1024.5	1029.8	1031.1	1036.4	<i>1037.7</i>
35°	1002.0	1004.6	1007.3	1017.9	<i>1019.2</i>
37.5°	976.9	983.5	986.1	1000.7	<i>1004.6</i>
40°	945.2	953.1	961.0	979.5	<i>982.2</i>
42.5°	905.5	914.8	925.3	945.2	<i>950.4</i>
45°	856.6	865.8	883.0	905.5	<i>912.1</i>
47.5°	806.4	816.9	840.7	864.5	<i>869.8</i>
50°	752.2	768.0	795.8	823.5	<i>827.5</i>
52.5°	703.2	719.1	753.5	782.6	<i>789.2</i>
55°	650.4	667.6	705.9	737.6	<i>746.9</i>
57.5°	597.5	620.0	660.9	692.7	<i>701.9</i>
60°	544.6	568.4	614.7	643.8	<i>655.7</i>
62.5°	493.1	519.5	565.8	598.8	<i>608.1</i>
65°	440.2	469.3	516.9	548.6	<i>559.2</i>
67.5°	386.0	416.4	466.6	498.4	<i>508.9</i>
70°	331.8	366.2	413.8	448.1	<i>457.4</i>
72.5°	280.2	312.0	359.6	390.0	<i>401.9</i>
75°	224.7	260.4	305.4	333.1	<i>341.0</i>
77.5°	174.5	208.9	248.5	265.7	<i>263.1</i>
80°	125.6	161.3	189.0	183.7	<i>175.8</i>
82.5°	84.6	113.7	117.6	109.7	<i>107.1</i>
85°	47.6	63.5	55.5	48.9	<i>46.3</i>
87.5°	19.8	17.2	9.3	4.0	<i>2.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)