

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: P302432

Luminaire Tested: **ZX-WO-40L840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302432  
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-40L840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (168)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

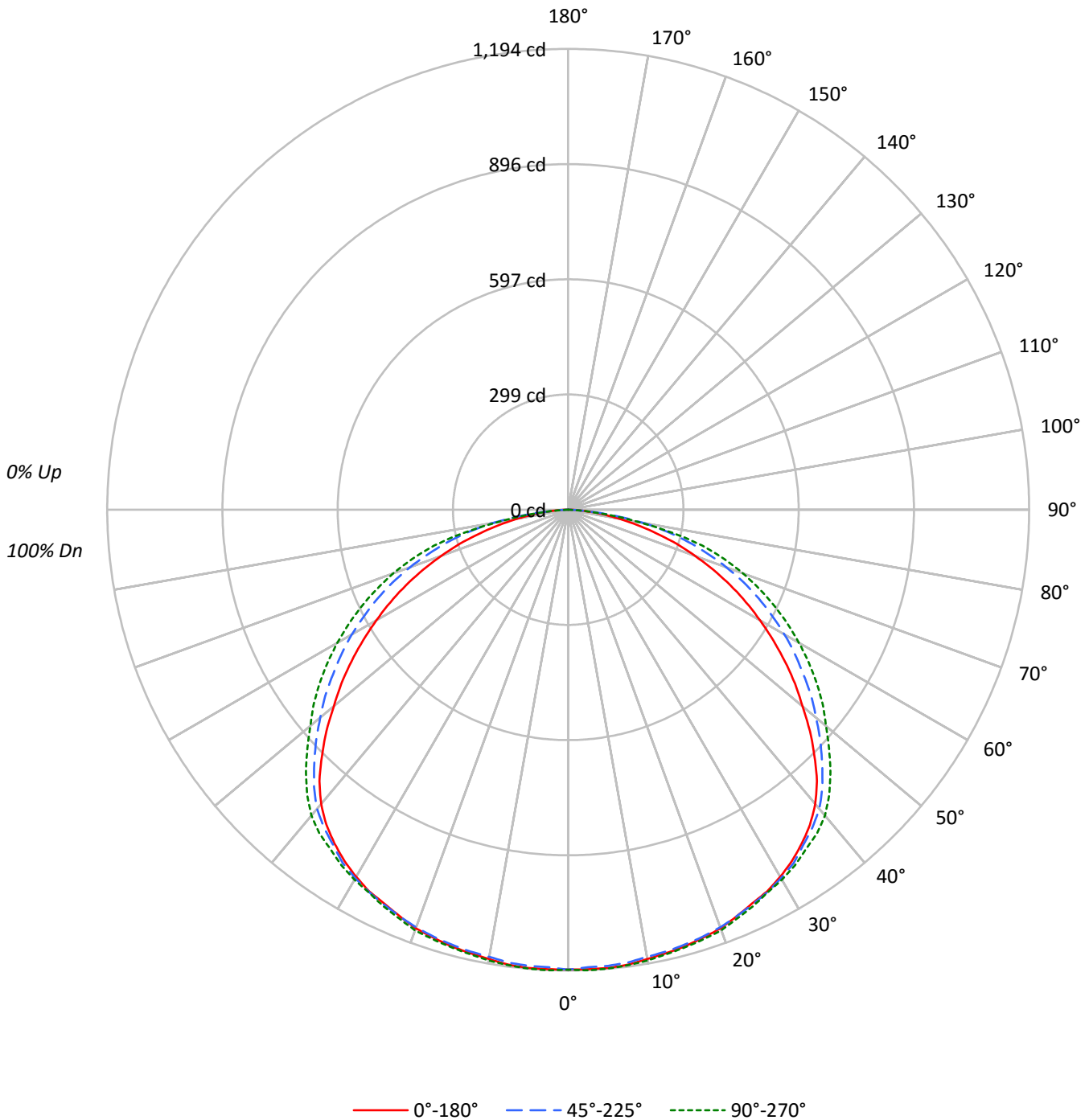
Lumens per Lamp: N/A  
Luminaire Lumens: 3942.6 lumens  
Efficiency: N/A  
Efficacy: 128.8 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.6  
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°	1603	1603	1603
5°	1610	1602	1611
10°	1615	1607	1621
15°	1631	1625	1635
20°	1653	1649	1661
25°	1672	1676	1682
30°	1707	1713	1720
35°	1733	1743	1763
40°	1748	1778	1817
45°	1717	1770	1828
50°	1658	1754	1824
55°	1607	1744	1845
60°	1544	1742	1858
65°	1476	1733	1875
70°	1375	1714	1895
75°	1231	1672	1867
80°	1025	1543	1435
85°	773	903	752



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	2.9
10°-20°	331.2	8.4
20°-30°	522.4	13.2
30°-40°	666.9	16.9
40°-50°	718.4	18.2
50°-60°	661.9	16.8
60°-70°	529.4	13.4
70°-80°	325.0	8.2
80°-90°	74.1	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°	967.0	24.5
0°-40°	1633.9	41.4
0°-60°	3014.1	76.5
0°-90°	3942.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1192	1192	1186	1193	1193	113
15°	1171	1172	1167	1174	1174	331
25°	1126	1128	1129	1135	1133	521
35°	1055	1058	1061	1072	1073	660
45°	902	912	930	954	961	695
55°	685	703	743	777	787	612
65°	464	494	544	578	589	458
75°	237	274	322	351	359	252
85°	50	67	58	52	49	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1191.7	1191.7	1191.7	1191.7	1191.7
2.5°	1191.7	1193.1	1186.2	1193.1	1194.5
5°	1191.7	1191.7	1186.2	1193.1	1193.1
7.5°	1189.0	1189.0	1183.4	1190.3	1190.3
10°	1182.0	1182.0	1176.4	1183.4	1186.2
12.5°	1176.4	1176.4	1172.2	1179.2	1179.2
15°	1170.9	1172.2	1166.7	1173.6	1173.6
17.5°	1162.5	1162.5	1159.7	1165.3	1166.7
20°	1154.2	1154.2	1151.4	1158.3	1159.7
22.5°	1140.2	1141.6	1140.2	1145.8	1145.8
25°	1126.3	1127.7	1129.1	1134.7	1133.3
27.5°	1115.2	1116.6	1116.6	1122.1	1118.0
30°	1098.5	1102.6	1102.6	1105.4	1106.8
32.5°	1079.0	1084.5	1085.9	1091.5	1092.9
35°	1055.3	1058.1	1060.9	1072.0	1073.4
37.5°	1028.9	1035.8	1038.6	1053.9	1058.1
40°	995.4	1003.8	1012.1	1031.6	1034.4
42.5°	953.7	963.4	974.6	995.4	1001.0
45°	902.2	911.9	930.0	953.7	960.6
47.5°	849.3	860.4	885.5	910.5	916.1
50°	792.2	808.9	838.1	867.4	871.5
52.5°	740.7	757.4	793.6	824.2	831.2
55°	685.0	703.1	743.4	776.9	786.6
57.5°	629.3	653.0	696.1	729.5	739.3
60°	573.6	598.7	647.4	678.0	690.5
62.5°	519.3	547.1	595.9	630.7	640.4
65°	463.6	494.2	544.4	577.8	588.9
67.5°	406.5	438.5	491.5	524.9	536.0
70°	349.4	385.6	435.8	472.0	481.7
72.5°	295.2	328.6	378.7	410.7	423.2
75°	236.7	274.3	321.6	350.8	359.2
77.5°	183.8	220.0	261.7	279.8	277.1
80°	132.3	169.9	199.1	193.5	185.2
82.5°	89.1	119.7	123.9	115.6	112.8
85°	50.1	66.8	58.5	51.5	48.7
87.5°	20.9	18.1	9.7	4.2	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)