

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: P302143

Luminaire Tested: **ZX-WO-39H840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-39H840-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (294)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

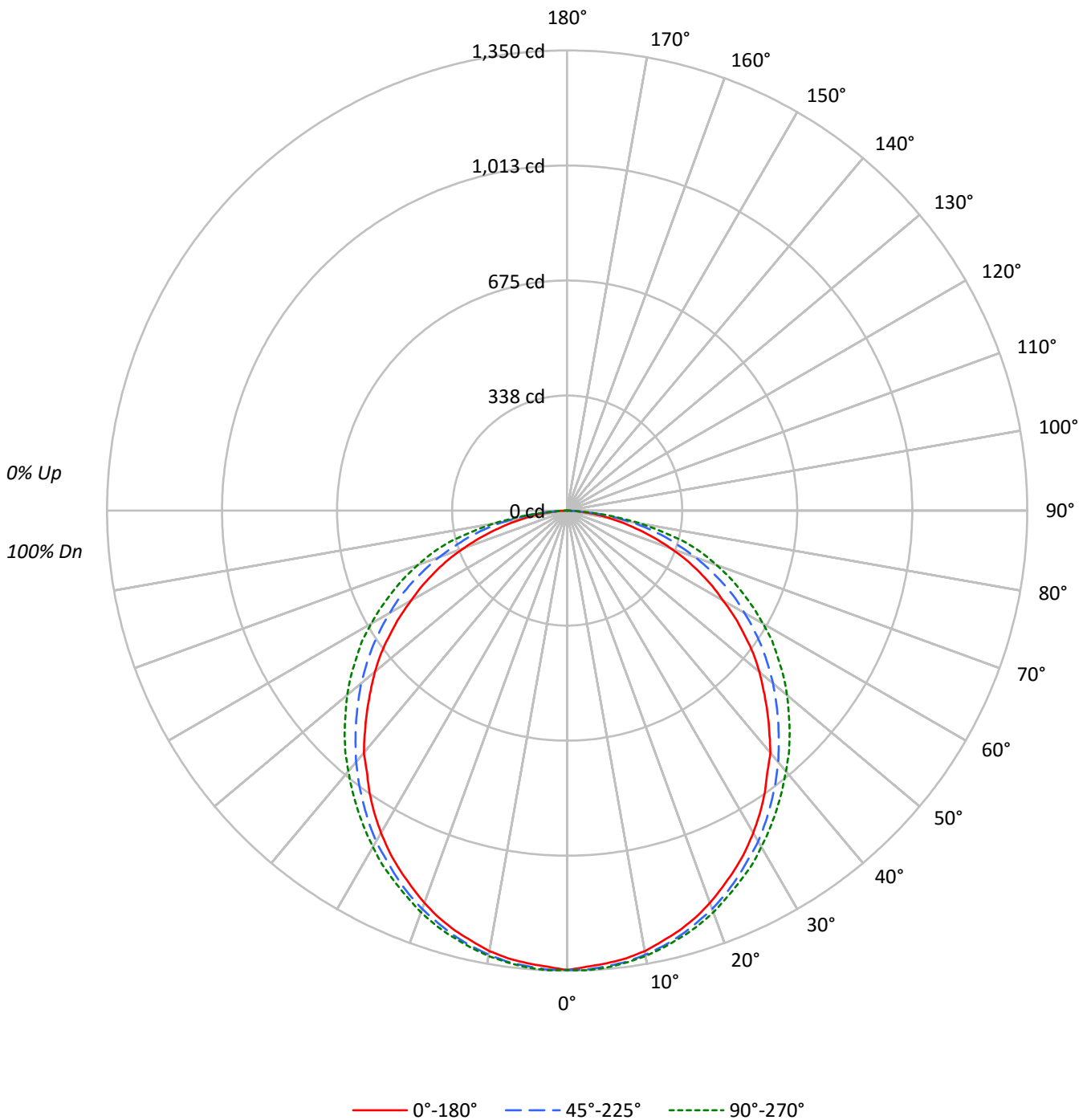
Lumens per Lamp: N/A  
Luminaire Lumens: 3863.1 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.9  
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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		61	56	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	68	55	46	40	53	45	40		51	45	39		50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31		43	36	31		42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28		40	33	28		39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	25	24

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

	0°	45°	90°
0°	3627	3627	3627
5°	3601	3623	3635
10°	3586	3614	3626
15°	3552	3592	3610
20°	3508	3562	3591
25°	3452	3520	3563
30°	3393	3483	3541
35°	3321	3430	3519
40°	3258	3382	3507
45°	3158	3332	3514
50°	3082	3300	3526
55°	2976	3269	3542
60°	2843	3235	3570
65°	2728	3205	3602
70°	2537	3142	3666
75°	2249	3070	3741
80°	1901	2868	3384
85°	1349	1991	1927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.4	3.3
10°-20°	363.1	9.4
20°-30°	545.6	14.1
30°-40°	652.7	16.9
40°-50°	676.8	17.5
50°-60°	622.5	16.1
60°-70°	494.0	12.8
70°-80°	305.1	7.9
80°-90°	75.8	2.0
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°	1036.0	26.8
0°-40°	1688.7	43.7
0°-60°	2988.0	77.3
0°-90°	3863.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1333	1337	1341	1346	1346	127
15°	1275	1279	1289	1296	1296	359
25°	1163	1171	1186	1198	1200	536
35°	1011	1021	1044	1065	1071	632
45°	830	844	876	911	923	641
55°	634	651	697	744	755	568
65°	428	447	503	551	566	424
75°	216	245	295	341	360	231
85°	44	56	64	64	62	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1339.4	1341.4	1347.7	1349.8	1349.8
5°	1333.1	1337.3	1341.4	1345.6	1345.6
7.5°	1324.8	1329.0	1335.2	1337.3	1337.3
10°	1312.3	1316.5	1322.7	1326.9	1326.9
12.5°	1293.6	1299.8	1308.2	1312.3	1312.3
15°	1274.9	1279.0	1289.4	1295.7	1295.7
17.5°	1252.0	1256.2	1266.6	1274.9	1277.0
20°	1225.0	1229.1	1243.7	1252.0	1254.1
22.5°	1193.8	1200.0	1216.6	1225.0	1227.0
25°	1162.6	1170.9	1185.5	1197.9	1200.0
27.5°	1129.3	1137.6	1152.2	1168.8	1173.0
30°	1091.9	1100.2	1121.0	1135.5	1139.7
32.5°	1052.3	1062.7	1083.5	1102.3	1106.4
35°	1010.8	1021.2	1044.0	1064.8	1071.1
37.5°	965.0	979.6	1004.5	1027.4	1035.7
40°	927.6	935.9	962.9	990.0	998.3
42.5°	877.7	890.1	919.2	950.4	962.9
45°	829.8	844.4	875.6	910.9	923.4
47.5°	782.0	796.5	831.9	869.3	881.8
50°	736.2	748.7	788.2	829.8	842.3
52.5°	688.4	700.9	742.5	788.2	800.7
55°	634.3	651.0	696.7	744.5	754.9
57.5°	584.4	601.0	648.9	694.6	713.4
60°	528.3	549.1	601.0	646.8	663.4
62.5°	480.4	497.1	555.3	601.0	615.6
65°	428.4	447.1	503.3	551.1	565.7
67.5°	378.5	397.2	451.3	499.1	517.9
70°	322.4	343.2	399.3	447.1	465.9
72.5°	270.4	295.3	345.2	395.2	415.9
75°	216.3	245.4	295.3	341.1	359.8
77.5°	168.5	193.4	241.2	272.4	282.8
80°	122.7	147.7	185.1	205.9	218.4
82.5°	83.2	97.7	126.9	141.4	141.4
85°	43.7	56.2	64.5	64.5	62.4
87.5°	14.6	16.6	12.5	6.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)