

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: P302131

Luminaire Tested: **ZX-WO-39H830-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302131  
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-39H830-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (294)3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

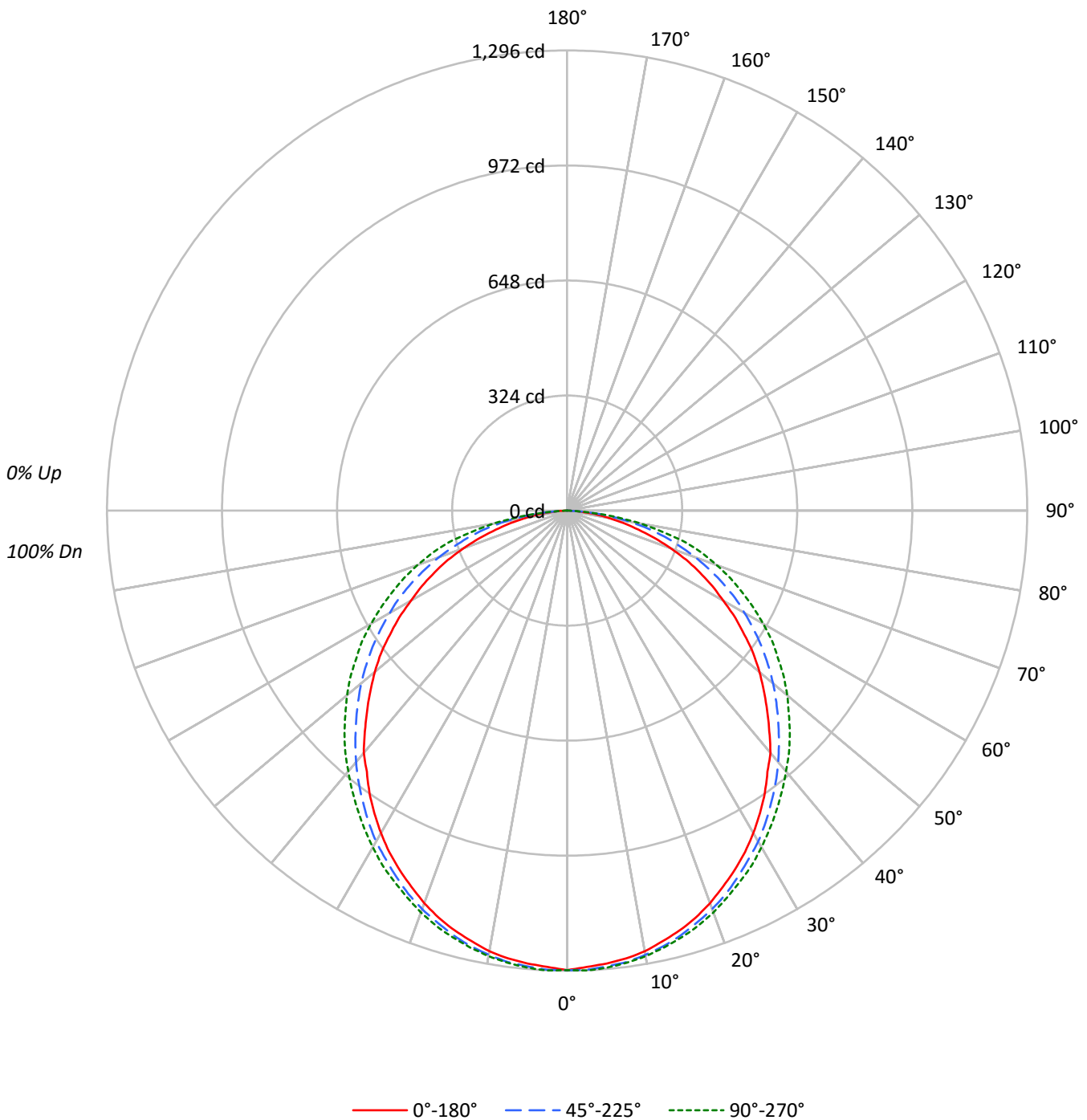
Lumens per Lamp: N/A  
Luminaire Lumens: 3710.2 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

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

	0°	45°	90°
0°	3483	3483	3483
5°	3459	3480	3491
10°	3444	3471	3482
15°	3411	3450	3467
20°	3369	3421	3449
25°	3315	3380	3422
30°	3258	3345	3401
35°	3189	3294	3379
40°	3130	3249	3368
45°	3033	3200	3375
50°	2960	3169	3387
55°	2858	3139	3402
60°	2730	3107	3429
65°	2620	3078	3459
70°	2436	3017	3520
75°	2159	2949	3593
80°	1826	2755	3250
85°	1294	1911	1849



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	3.3
10°-20°	348.7	9.4
20°-30°	524.0	14.1
30°-40°	626.9	16.9
40°-50°	650.0	17.5
50°-60°	597.9	16.1
60°-70°	474.5	12.8
70°-80°	293.1	7.9
80°-90°	72.8	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°	995.0	26.8
0°-40°	1621.9	43.7
0°-60°	2869.8	77.3
0°-90°	3710.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1280	1284	1288	1292	1292	122
15°	1224	1228	1238	1244	1244	345
25°	1117	1125	1138	1150	1152	514
35°	971	981	1003	1023	1029	607
45°	797	811	841	875	887	616
55°	609	625	669	715	725	545
65°	412	429	483	529	543	407
75°	208	236	284	328	346	222
85°	42	54	62	62	60	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1294.3	1294.3	1294.3	1294.3	1294.3
2.5°	1286.3	1288.3	1294.3	1296.3	1296.3
5°	1280.4	1284.3	1288.3	1292.3	1292.3
7.5°	1272.4	1276.4	1282.3	1284.3	1284.3
10°	1260.4	1264.4	1270.4	1274.4	1274.4
12.5°	1242.4	1248.4	1256.4	1260.4	1260.4
15°	1224.4	1228.4	1238.4	1244.4	1244.4
17.5°	1202.5	1206.4	1216.4	1224.4	1226.4
20°	1176.5	1180.5	1194.5	1202.5	1204.4
22.5°	1146.5	1152.5	1168.5	1176.5	1178.5
25°	1116.6	1124.6	1138.5	1150.5	1152.5
27.5°	1084.6	1092.6	1106.6	1122.6	1126.5
30°	1048.6	1056.6	1076.6	1090.6	1094.6
32.5°	1010.7	1020.7	1040.7	1058.6	1062.6
35°	970.7	980.7	1002.7	1022.7	1028.7
37.5°	926.8	940.8	964.8	986.7	994.7
40°	890.9	898.8	924.8	950.8	958.8
42.5°	842.9	854.9	882.9	912.8	924.8
45°	797.0	811.0	840.9	874.9	886.9
47.5°	751.0	765.0	799.0	834.9	846.9
50°	707.1	719.1	757.0	797.0	809.0
52.5°	661.1	673.1	713.1	757.0	769.0
55°	609.2	625.2	669.1	715.1	725.1
57.5°	561.3	577.3	623.2	667.1	685.1
60°	507.3	527.3	577.3	621.2	637.2
62.5°	461.4	477.4	533.3	577.3	591.2
65°	411.5	429.4	483.4	529.3	543.3
67.5°	363.5	381.5	433.4	479.4	497.4
70°	309.6	329.6	383.5	429.4	447.4
72.5°	259.7	283.6	331.6	379.5	399.5
75°	207.7	235.7	283.6	327.6	345.6
77.5°	161.8	185.8	231.7	261.7	271.6
80°	117.8	141.8	177.8	197.7	209.7
82.5°	79.9	93.9	121.8	135.8	135.8
85°	41.9	53.9	61.9	61.9	59.9
87.5°	14.0	16.0	12.0	6.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)