

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: P302161

Luminaire Tested: **ZX-WO-39H940-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302161  
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-39H940-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (294)4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

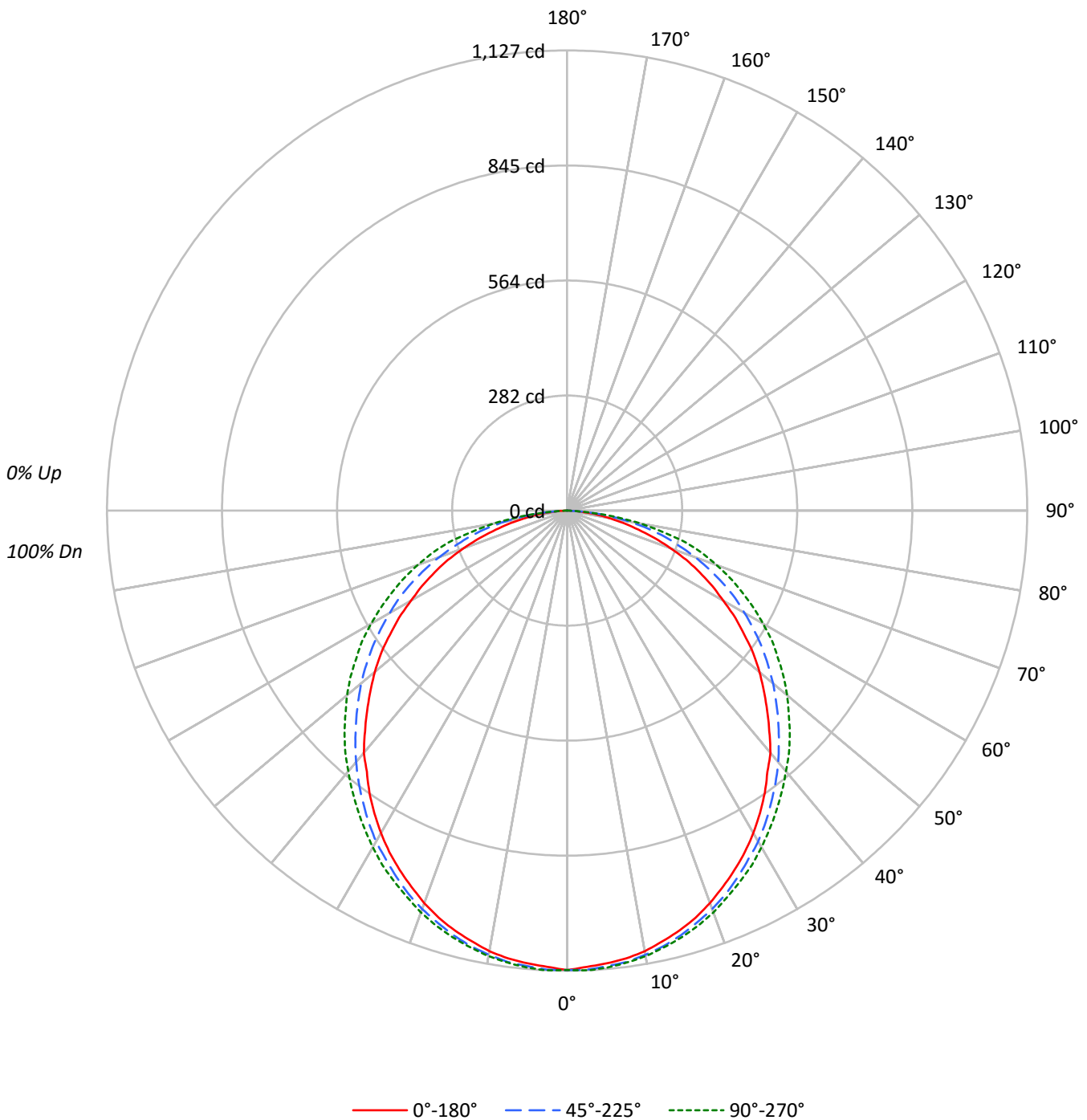
Lumens per Lamp: N/A  
Luminaire Lumens: 3225.9 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P302161  
CATALOG NUMBER: ZX-WO-39H940-UNV-22-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P302161

CATALOG NUMBER: ZX-WO-39H940-UNV-22-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	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°	3028	3028	3028
5°	3007	3026	3035
10°	2994	3018	3028
15°	2966	3000	3014
20°	2929	2974	2999
25°	2882	2939	2975
30°	2833	2909	2957
35°	2773	2864	2938
40°	2721	2825	2928
45°	2637	2782	2935
50°	2574	2756	2945
55°	2485	2730	2958
60°	2374	2701	2982
65°	2278	2676	3008
70°	2118	2623	3061
75°	1878	2564	3123
80°	1588	2396	2827
85°	1127	1661	1609



TEST NUMBER: P302161

CATALOG NUMBER: ZX-WO-39H940-UNV-22-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	3.3
10°-20°	303.2	9.4
20°-30°	455.6	14.1
30°-40°	545.0	16.9
40°-50°	565.2	17.5
50°-60°	519.8	16.1
60°-70°	412.6	12.8
70°-80°	254.8	7.9
80°-90°	63.3	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°	865.1	26.8
0°-40°	1410.2	43.7
0°-60°	2495.2	77.3
0°-90°	3225.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1113	1117	1120	1124	1124	106
15°	1065	1068	1077	1082	1082	300
25°	971	978	990	1000	1002	447
35°	844	853	872	889	894	528
45°	693	705	731	761	771	535
55°	530	544	582	622	630	474
65°	358	373	420	460	472	354
75°	181	205	247	285	300	193
85°	36	47	54	54	52	46
90°	0	0	0	0	0	



TEST NUMBER: P302161

CATALOG NUMBER: ZX-WO-39H940-UNV-22-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.4	1125.4	1125.4	1125.4	1125.4
2.5°	1118.4	1120.2	1125.4	1127.1	1127.1
5°	1113.2	1116.7	1120.2	1123.6	1123.6
7.5°	1106.3	1109.7	1115.0	1116.7	1116.7
10°	1095.8	1099.3	1104.5	1108.0	1108.0
12.5°	1080.2	1085.4	1092.4	1095.8	1095.8
15°	1064.6	1068.1	1076.7	1082.0	1082.0
17.5°	1045.5	1049.0	1057.6	1064.6	1066.3
20°	1022.9	1026.4	1038.5	1045.5	1047.2
22.5°	996.9	1002.1	1016.0	1022.9	1024.6
25°	970.8	977.8	989.9	1000.3	1002.1
27.5°	943.0	950.0	962.1	976.0	979.5
30°	911.8	918.7	936.1	948.2	951.7
32.5°	878.8	887.4	904.8	920.4	923.9
35°	844.0	852.7	871.8	889.2	894.4
37.5°	805.8	818.0	838.8	857.9	864.9
40°	774.6	781.5	804.1	826.7	833.6
42.5°	732.9	743.3	767.6	793.7	804.1
45°	692.9	705.1	731.1	760.7	771.1
47.5°	653.0	665.1	694.7	725.9	736.4
50°	614.8	625.2	658.2	692.9	703.4
52.5°	574.8	585.3	620.0	658.2	668.6
55°	529.7	543.6	581.8	621.7	630.4
57.5°	488.0	501.9	541.8	580.1	595.7
60°	441.1	458.5	501.9	540.1	554.0
62.5°	401.2	415.1	463.7	501.9	514.1
65°	357.8	373.4	420.3	460.2	472.4
67.5°	316.1	331.7	376.9	416.8	432.4
70°	269.2	286.6	333.4	373.4	389.0
72.5°	225.8	246.6	288.3	330.0	347.3
75°	180.6	204.9	246.6	284.8	300.4
77.5°	140.7	161.5	201.5	227.5	236.2
80°	102.5	123.3	154.6	171.9	182.4
82.5°	69.5	81.6	105.9	118.1	118.1
85°	36.5	46.9	53.8	53.8	52.1
87.5°	12.2	13.9	10.4	5.2	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)