

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: P302231

Luminaire Tested: **ZX-WO-39L940-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-39L940-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (196)4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3308.3 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

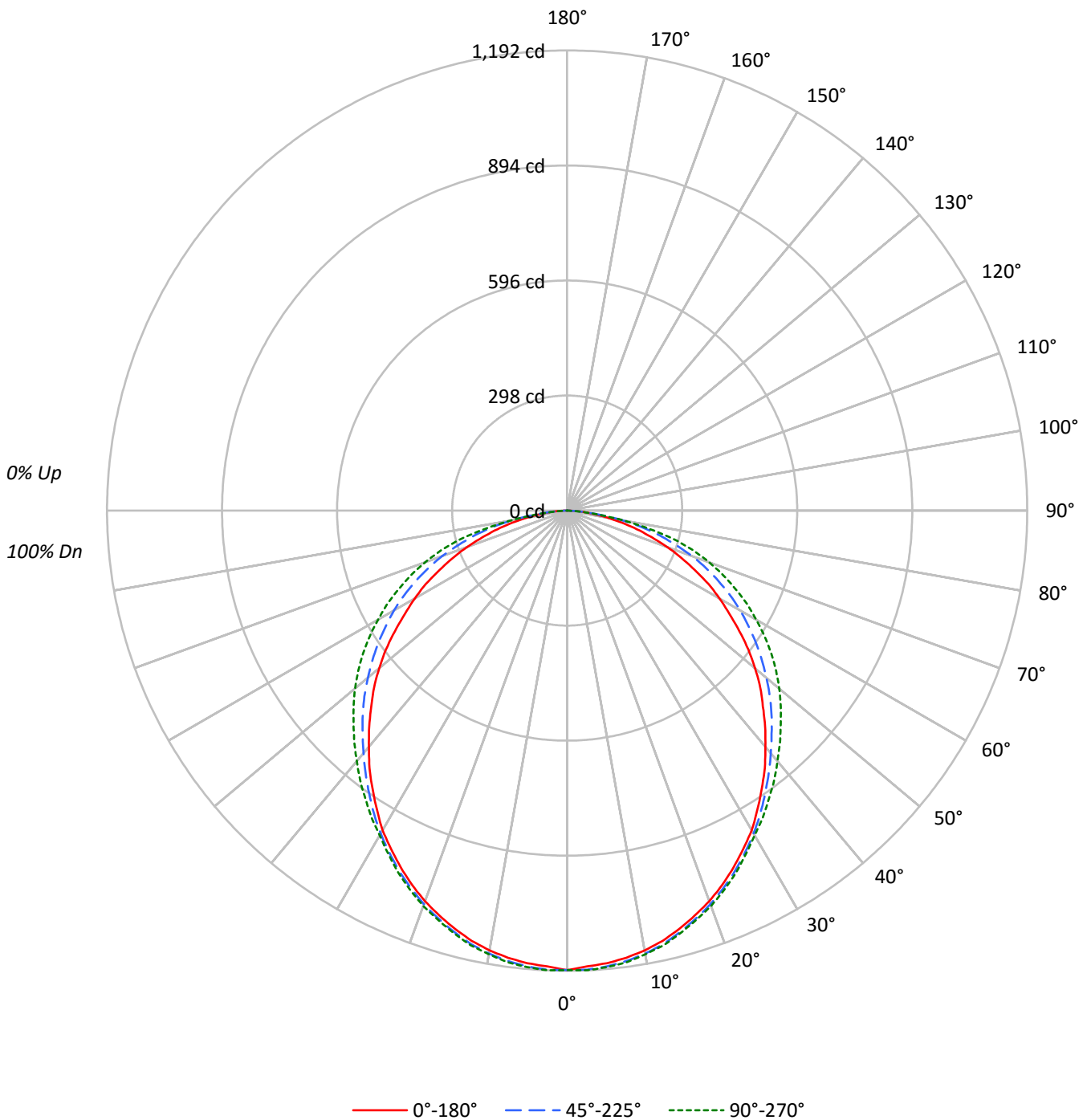
Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83					83			
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49					49			
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

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

	0°	45°	90°
0°	3203	3203	3203
5°	3179	3202	3206
10°	3161	3184	3189
15°	3125	3148	3158
20°	3083	3107	3121
25°	3028	3058	3072
30°	2971	3003	3018
35°	2889	2938	2993
40°	2807	2883	2977
45°	2729	2850	2978
50°	2660	2820	3003
55°	2557	2800	3027
60°	2456	2789	3041
65°	2320	2757	3066
70°	2170	2710	3078
75°	1946	2572	2973
80°	1632	2253	2280
85°	1291	1291	1031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	3.4
10°-20°	318.3	9.6
20°-30°	473.7	14.3
30°-40°	560.3	16.9
40°-50°	579.0	17.5
50°-60°	532.4	16.1
60°-70°	423.3	12.8
70°-80°	253.6	7.7
80°-90°	55.3	1.7
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°	904.4	27.3
0°-40°	1464.7	44.3
0°-60°	2576.1	77.9
0°-90°	3308.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1177	1180	1185	1187	1187	112
15°	1122	1125	1130	1133	1133	316
25°	1020	1023	1030	1035	1035	470
35°	879	884	894	906	911	550
45°	717	724	749	776	782	554
55°	545	557	597	634	645	488
65°	364	386	433	471	482	362
75°	187	212	247	276	286	198
85°	42	45	42	38	33	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.3	1190.3	1190.3	1190.3	1190.3
2.5°	1181.9	1185.3	1190.3	1191.9	1191.9
5°	1176.9	1180.2	1185.3	1186.9	1186.9
7.5°	1168.5	1171.9	1176.9	1178.6	1180.2
10°	1156.8	1160.2	1165.2	1166.9	1166.9
12.5°	1141.8	1143.5	1150.2	1151.8	1153.5
15°	1121.7	1125.1	1130.1	1133.4	1133.4
17.5°	1100.0	1103.3	1108.4	1111.7	1111.7
20°	1076.6	1079.9	1085.0	1088.3	1090.0
22.5°	1049.9	1053.2	1058.2	1063.2	1063.2
25°	1019.8	1023.1	1029.8	1034.8	1034.8
27.5°	988.0	991.3	998.0	1003.0	1003.0
30°	956.2	957.9	966.3	969.6	971.3
32.5°	917.8	922.8	931.2	937.8	942.9
35°	879.3	884.3	894.4	906.1	911.1
37.5°	840.9	845.9	857.6	874.3	881.0
40°	799.1	805.8	820.8	842.6	847.6
42.5°	759.0	767.3	784.0	809.1	815.8
45°	717.2	723.9	748.9	775.7	782.4
47.5°	678.7	683.7	712.2	742.3	750.6
50°	635.3	641.9	673.7	707.1	717.2
52.5°	591.8	600.2	635.3	670.4	682.1
55°	545.0	556.7	596.8	633.6	645.3
57.5°	498.2	514.9	556.7	593.5	606.8
60°	456.4	471.4	518.2	553.3	565.0
62.5°	412.9	429.6	476.4	511.6	526.6
65°	364.4	386.2	433.0	471.4	481.5
67.5°	321.0	342.7	389.5	424.6	438.0
70°	275.8	300.9	344.4	376.1	391.2
72.5°	229.0	255.8	294.2	327.7	342.7
75°	187.2	212.3	247.4	275.8	285.9
77.5°	145.4	168.8	197.3	214.0	217.3
80°	105.3	123.7	145.4	148.8	147.1
82.5°	70.2	83.6	90.3	86.9	86.9
85°	41.8	45.1	41.8	38.4	33.4
87.5°	15.0	13.4	10.0	6.7	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)