

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: P302140

Luminaire Tested: **ZX-WO-24H840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302140  
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-24H840-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**

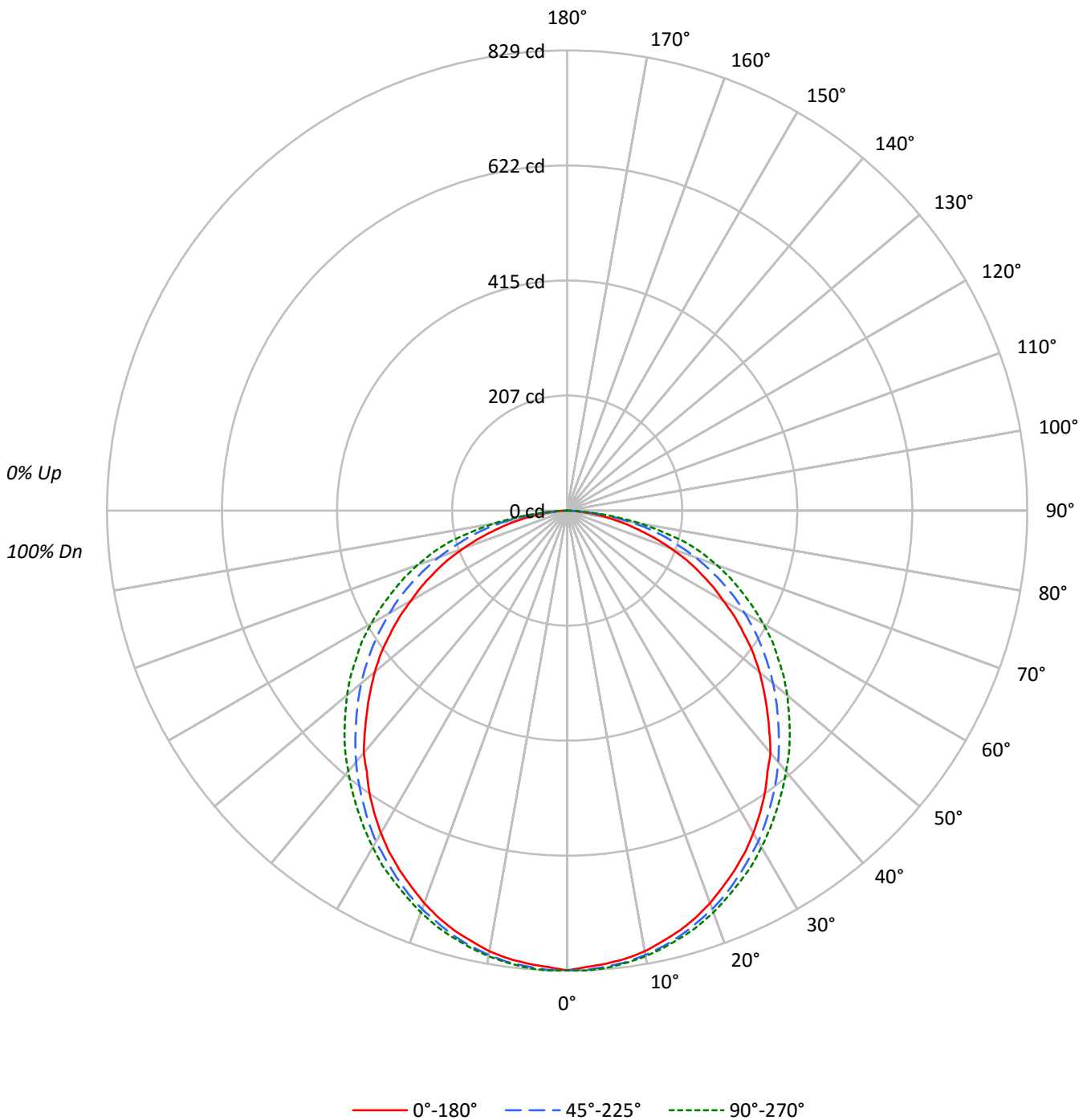
Lumens per Lamp: N/A  
Luminaire Lumens: 2373.4 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.7  
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°	2228	2228	2228
5°	2213	2226	2233
10°	2203	2221	2228
15°	2182	2207	2218
20°	2155	2188	2206
25°	2121	2162	2189
30°	2084	2140	2176
35°	2040	2107	2162
40°	2002	2078	2154
45°	1940	2047	2159
50°	1894	2027	2166
55°	1828	2008	2176
60°	1747	1988	2194
65°	1676	1969	2213
70°	1559	1930	2252
75°	1382	1886	2299
80°	1168	1762	2080
85°	827	1223	1183



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.3	3.3
10°-20°	223.1	9.4
20°-30°	335.2	14.1
30°-40°	401.0	16.9
40°-50°	415.8	17.5
50°-60°	382.5	16.1
60°-70°	303.5	12.8
70°-80°	187.5	7.9
80°-90°	46.6	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°	636.5	26.8
0°-40°	1037.5	43.7
0°-60°	1835.8	77.3
0°-90°	2373.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2373.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	819	822	824	827	827	78
15°	783	786	792	796	796	221
25°	714	719	728	736	737	329
35°	621	627	641	654	658	388
45°	510	519	538	560	567	394
55°	390	400	428	457	464	349
65°	263	275	309	339	348	260
75°	133	151	181	210	221	142
85°	27	34	40	40	38	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	828.0	828.0	828.0	828.0	828.0
2.5°	822.9	824.2	828.0	829.3	829.3
5°	819.1	821.6	824.2	826.7	826.7
7.5°	813.9	816.5	820.3	821.6	821.6
10°	806.3	808.8	812.7	815.2	815.2
12.5°	794.8	798.6	803.7	806.3	806.3
15°	783.3	785.8	792.2	796.1	796.1
17.5°	769.2	771.8	778.2	783.3	784.6
20°	752.6	755.2	764.1	769.2	770.5
22.5°	733.4	737.3	747.5	752.6	753.9
25°	714.3	719.4	728.3	736.0	737.3
27.5°	693.8	698.9	707.9	718.1	720.7
30°	670.8	675.9	688.7	697.7	700.2
32.5°	646.6	652.9	665.7	677.2	679.8
35°	621.0	627.4	641.4	654.2	658.1
37.5°	592.9	601.8	617.2	631.2	636.3
40°	569.9	575.0	591.6	608.2	613.3
42.5°	539.2	546.9	564.8	583.9	591.6
45°	509.8	518.8	537.9	559.7	567.3
47.5°	480.4	489.4	511.1	534.1	541.8
50°	452.3	460.0	484.3	509.8	517.5
52.5°	422.9	430.6	456.2	484.3	491.9
55°	389.7	399.9	428.1	457.4	463.8
57.5°	359.1	369.3	398.7	426.8	438.3
60°	324.6	337.3	369.3	397.4	407.6
62.5°	295.2	305.4	341.2	369.3	378.2
65°	263.2	274.7	309.2	338.6	347.6
67.5°	232.6	244.1	277.3	306.7	318.2
70°	198.1	210.8	245.3	274.7	286.2
72.5°	166.1	181.4	212.1	242.8	255.6
75°	132.9	150.8	181.4	209.6	221.1
77.5°	103.5	118.8	148.2	167.4	173.8
80°	75.4	90.7	113.7	126.5	134.2
82.5°	51.1	60.1	77.9	86.9	86.9
85°	26.8	34.5	39.6	39.6	38.3
87.5°	8.9	10.2	7.7	3.8	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)