

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: P302139

Luminaire Tested: **ZX-WO-20H840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302139  
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-20H840-UNV-22-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.  
Light Source: (168)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

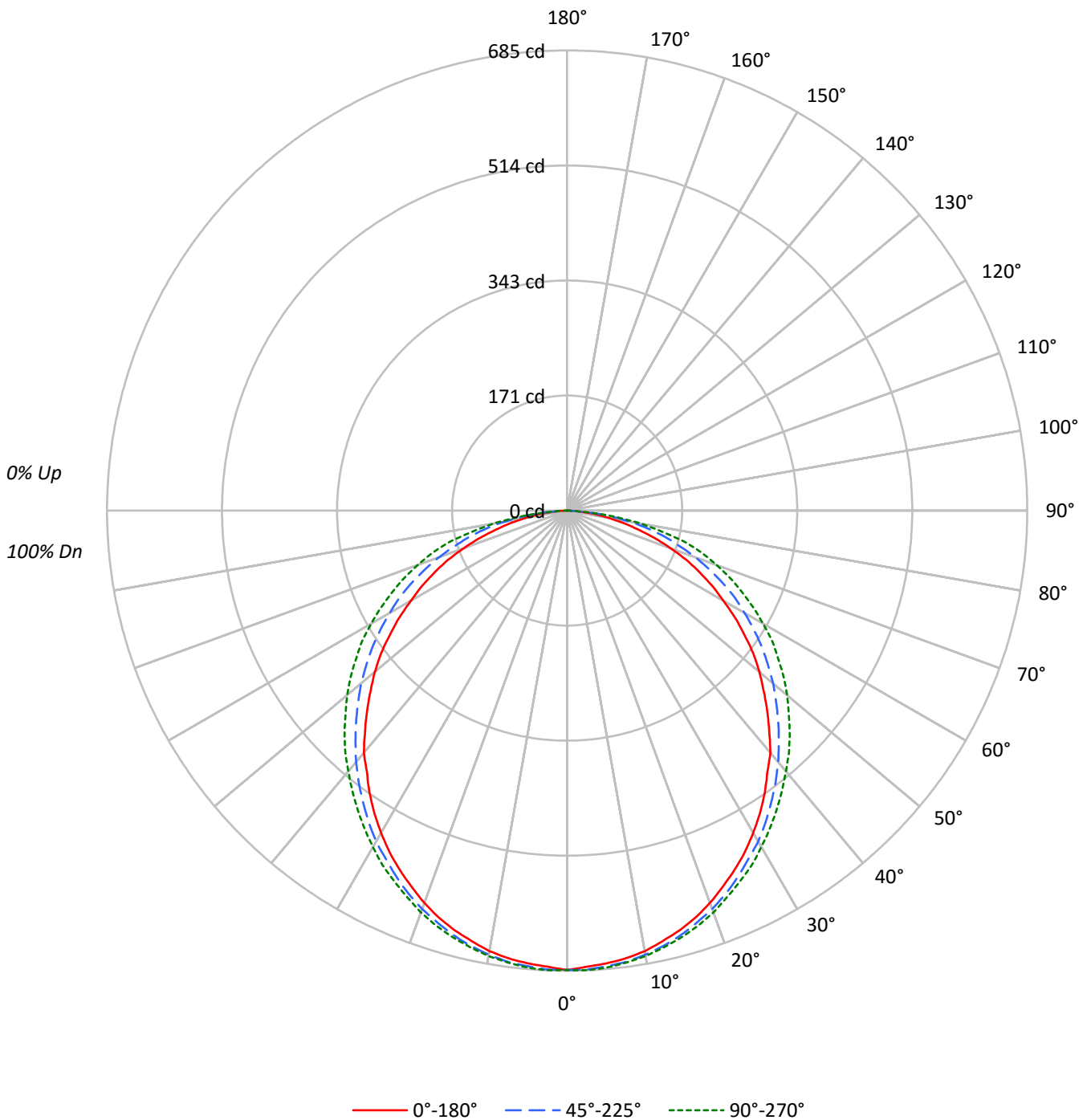
Lumens per Lamp: N/A  
Luminaire Lumens: 1960.3 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.9  
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°	1840	1840	1840
5°	1827	1839	1844
10°	1820	1834	1840
15°	1802	1823	1832
20°	1780	1807	1822
25°	1752	1786	1808
30°	1721	1767	1797
35°	1685	1740	1785
40°	1653	1716	1780
45°	1603	1691	1783
50°	1564	1675	1789
55°	1510	1658	1797
60°	1443	1641	1812
65°	1384	1626	1827
70°	1287	1594	1860
75°	1142	1559	1899
80°	965	1455	1717
85°	685	1010	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	3.3
10°-20°	184.2	9.4
20°-30°	276.8	14.1
30°-40°	331.2	16.9
40°-50°	343.4	17.5
50°-60°	315.9	16.1
60°-70°	250.7	12.8
70°-80°	154.8	7.9
80°-90°	38.5	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°	525.7	26.8
0°-40°	856.9	43.7
0°-60°	1516.2	77.3
0°-90°	1960.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1960.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	676	679	681	683	683	64
15°	647	649	654	658	658	182
25°	590	594	602	608	609	272
35°	513	518	530	540	544	321
45°	421	428	444	462	469	325
55°	322	330	354	378	383	288
65°	217	227	255	280	287	215
75°	110	124	150	173	183	117
85°	22	28	33	33	32	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	683.8	683.8	683.8	683.8	683.8
2.5°	679.6	680.7	683.8	684.9	684.9
5°	676.5	678.6	680.7	682.8	682.8
7.5°	672.2	674.4	677.5	678.6	678.6
10°	665.9	668.0	671.2	673.3	673.3
12.5°	656.4	659.6	663.8	665.9	665.9
15°	646.9	649.0	654.3	657.5	657.5
17.5°	635.3	637.4	642.7	646.9	648.0
20°	621.6	623.7	631.1	635.3	636.4
22.5°	605.8	608.9	617.4	621.6	622.6
25°	589.9	594.1	601.5	607.9	608.9
27.5°	573.0	577.3	584.6	593.1	595.2
30°	554.0	558.3	568.8	576.2	578.3
32.5°	534.0	539.3	549.8	559.3	561.4
35°	512.9	518.2	529.8	540.3	543.5
37.5°	489.7	497.1	509.7	521.3	525.5
40°	470.7	474.9	488.6	502.3	506.6
42.5°	445.3	451.7	466.5	482.3	488.6
45°	421.1	428.5	444.3	462.2	468.6
47.5°	396.8	404.2	422.1	441.1	447.5
50°	373.6	379.9	400.0	421.1	427.4
52.5°	349.3	355.6	376.7	400.0	406.3
55°	321.9	330.3	353.5	377.8	383.1
57.5°	296.5	305.0	329.3	352.5	362.0
60°	268.1	278.6	305.0	328.2	336.6
62.5°	243.8	252.2	281.8	305.0	312.4
65°	217.4	226.9	255.4	279.7	287.0
67.5°	192.1	201.6	229.0	253.3	262.8
70°	163.6	174.1	202.6	226.9	236.4
72.5°	137.2	149.9	175.2	200.5	211.1
75°	109.8	124.5	149.9	173.1	182.6
77.5°	85.5	98.1	122.4	138.2	143.5
80°	62.3	74.9	93.9	104.5	110.8
82.5°	42.2	49.6	64.4	71.8	71.8
85°	22.2	28.5	32.7	32.7	31.7
87.5°	7.4	8.4	6.3	3.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)