

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: P302144

Luminaire Tested: **ZX-WO-44H840-UNV-22-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302144  
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-44H840-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**

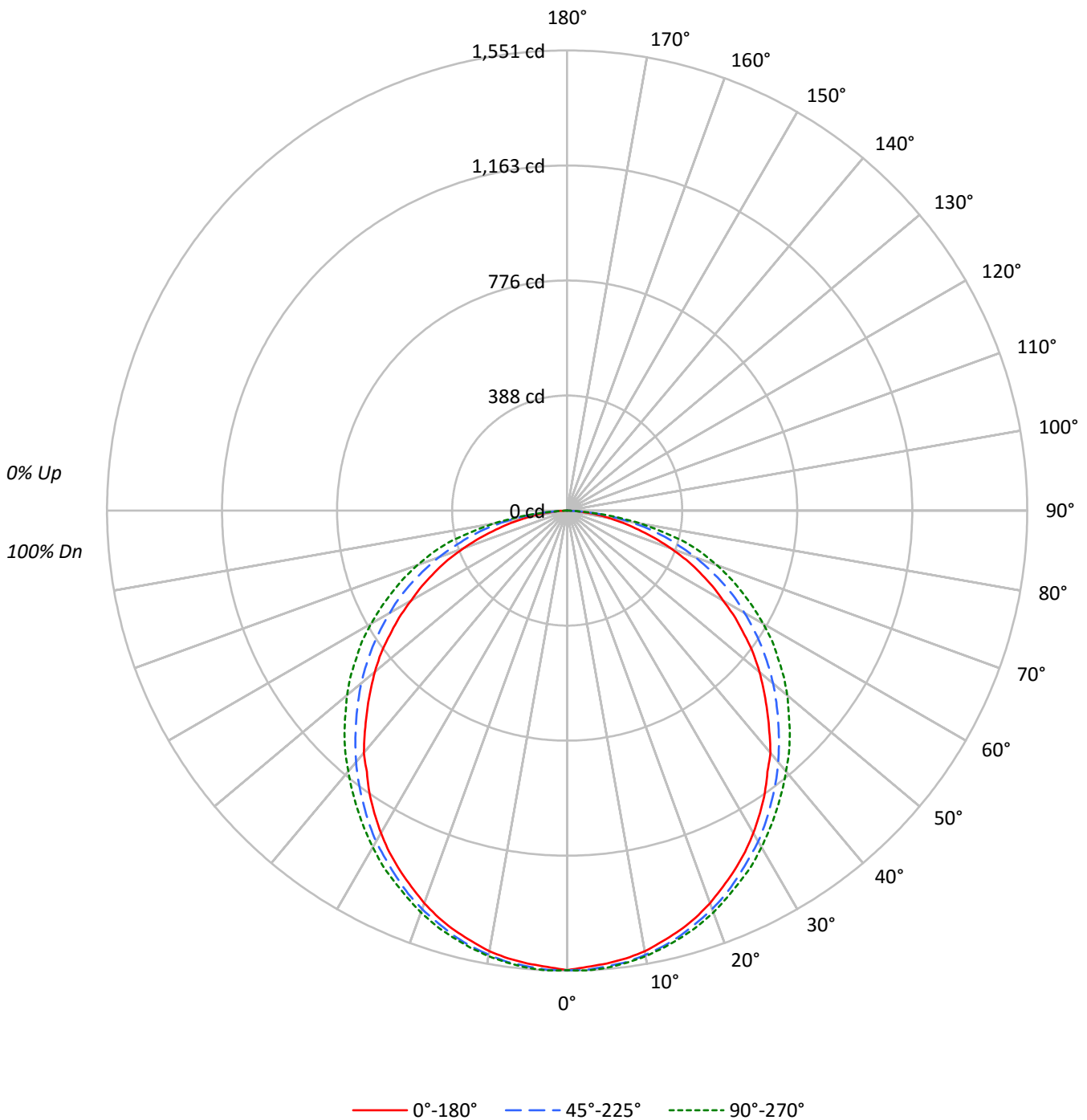
Lumens per Lamp: N/A  
Luminaire Lumens: 4440.2 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.2  
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°	4168	4168	4168
5°	4139	4165	4178
10°	4122	4154	4167
15°	4082	4129	4149
20°	4032	4094	4128
25°	3968	4045	4095
30°	3900	4003	4071
35°	3817	3942	4044
40°	3745	3888	4031
45°	3630	3830	4039
50°	3543	3793	4053
55°	3421	3757	4071
60°	3268	3718	4104
65°	3135	3684	4140
70°	2915	3611	4213
75°	2585	3529	4299
80°	2185	3296	3890
85°	1550	2288	2214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.4	3.3
10°-20°	417.3	9.4
20°-30°	627.1	14.1
30°-40°	750.2	16.9
40°-50°	777.9	17.5
50°-60°	715.5	16.1
60°-70°	567.8	12.8
70°-80°	350.7	7.9
80°-90°	87.1	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°	1190.8	26.8
0°-40°	1941.0	43.7
0°-60°	3434.4	77.3
0°-90°	4440.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4440.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1549	1549	1549	1549	1549	
5°	1532	1537	1542	1547	1547	146
15°	1465	1470	1482	1489	1489	413
25°	1336	1346	1362	1377	1379	616
35°	1162	1174	1200	1224	1231	727
45°	954	970	1006	1047	1061	737
55°	729	748	801	856	868	653
65°	492	514	578	634	650	487
75°	249	282	339	392	414	266
85°	50	64	74	74	72	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1549.0	1549.0	1549.0	1549.0	1549.0
2.5°	1539.4	1541.8	1549.0	1551.4	1551.4
5°	1532.3	1537.1	1541.8	1546.6	1546.6
7.5°	1522.7	1527.5	1534.7	1537.1	1537.1
10°	1508.4	1513.1	1520.3	1525.1	1525.1
12.5°	1486.9	1494.0	1503.6	1508.4	1508.4
15°	1465.3	1470.1	1482.1	1489.2	1489.2
17.5°	1439.0	1443.8	1455.8	1465.3	1467.7
20°	1408.0	1412.7	1429.5	1439.0	1441.4
22.5°	1372.1	1379.3	1398.4	1408.0	1410.4
25°	1336.3	1345.8	1362.5	1376.9	1379.3
27.5°	1298.0	1307.6	1324.3	1343.4	1348.2
30°	1255.0	1264.5	1288.4	1305.2	1310.0
32.5°	1209.6	1221.5	1245.4	1266.9	1271.7
35°	1161.8	1173.7	1200.0	1223.9	1231.1
37.5°	1109.2	1125.9	1154.6	1180.9	1190.4
40°	1066.1	1075.7	1106.8	1137.8	1147.4
42.5°	1008.8	1023.1	1056.6	1092.4	1106.8
45°	953.8	970.5	1006.4	1047.0	1061.4
47.5°	898.8	915.5	956.2	999.2	1013.5
50°	846.2	860.6	906.0	953.8	968.1
52.5°	791.2	805.6	853.4	906.0	920.3
55°	729.1	748.2	800.8	855.8	867.7
57.5°	671.7	690.8	745.8	798.4	819.9
60°	607.2	631.1	690.8	743.4	762.5
62.5°	552.2	571.3	638.2	690.8	707.6
65°	492.4	513.9	578.5	633.5	650.2
67.5°	435.1	456.6	518.7	573.7	595.2
70°	370.5	394.4	459.0	513.9	535.5
72.5°	310.8	339.4	396.8	454.2	478.1
75°	248.6	282.1	339.4	392.0	413.5
77.5°	193.6	222.3	277.3	313.1	325.1
80°	141.0	169.7	212.7	236.7	251.0
82.5°	95.6	112.4	145.8	162.5	162.5
85°	50.2	64.5	74.1	74.1	71.7
87.5°	16.7	19.1	14.3	7.2	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)