

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: P302431

Luminaire Tested: **ZX-WO-35L840-UNV-24-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P302431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: ZX-WO-35L840-UNV-24-STD  
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.  
FLAT LENS, STANDARD LUMEN PACKAGE.  
Light Source: (168)4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

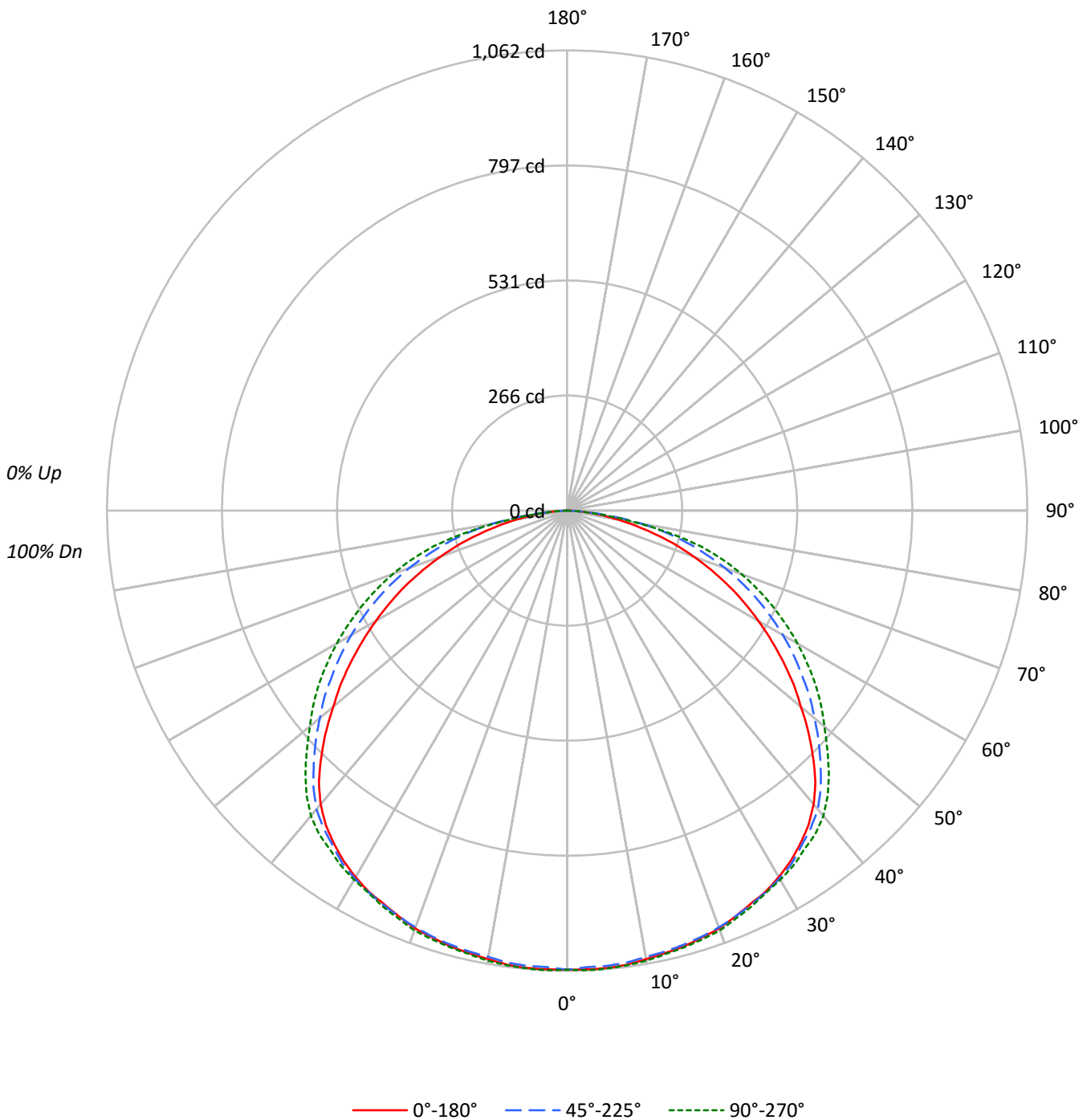
Lumens per Lamp: N/A  
Luminaire Lumens: 3505.5 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 26.9  
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	103	99	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74		81	76	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52		62	56	51		60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24		35	29	24		35	28	24	22

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

	0°	45°	90°
0°	1426	1426	1426
5°	1431	1425	1433
10°	1436	1429	1441
15°	1450	1445	1454
20°	1469	1466	1477
25°	1487	1490	1496
30°	1517	1523	1529
35°	1541	1549	1568
40°	1555	1581	1616
45°	1526	1573	1625
50°	1474	1560	1622
55°	1429	1551	1641
60°	1372	1549	1652
65°	1312	1541	1667
70°	1222	1524	1685
75°	1094	1487	1660
80°	911	1371	1275
85°	689	803	668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	2.9
10°-20°	294.5	8.4
20°-30°	464.5	13.2
30°-40°	593.0	16.9
40°-50°	638.7	18.2
50°-60°	588.5	16.8
60°-70°	470.7	13.4
70°-80°	288.9	8.2
80°-90°	65.9	1.9
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°	859.8	24.5
0°-40°	1452.7	41.4
0°-60°	2680.0	76.5
0°-90°	3505.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1060	1060	1055	1061	1061	101
15°	1041	1042	1037	1044	1044	294
25°	1002	1003	1004	1009	1008	463
35°	938	941	943	953	954	587
45°	802	811	827	848	854	618
55°	609	625	661	691	699	544
65°	412	440	484	514	524	407
75°	210	244	286	312	319	224
85°	45	59	52	46	43	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1059.6	1059.6	1059.6	1059.6	1059.6
2.5°	1059.6	1060.9	1054.7	1060.9	1062.1
5°	1059.6	1059.6	1054.7	1060.9	1060.9
7.5°	1057.2	1057.2	1052.2	1058.4	1058.4
10°	1051.0	1051.0	1046.0	1052.2	1054.7
12.5°	1046.0	1046.0	1042.3	1048.5	1048.5
15°	1041.1	1042.3	1037.4	1043.5	1043.5
17.5°	1033.6	1033.6	1031.2	1036.1	1037.4
20°	1026.2	1026.2	1023.7	1029.9	1031.2
22.5°	1013.8	1015.1	1013.8	1018.8	1018.8
25°	1001.5	1002.7	1003.9	1008.9	1007.6
27.5°	991.6	992.8	992.8	997.7	994.0
30°	976.7	980.4	980.4	982.9	984.1
32.5°	959.4	964.3	965.6	970.5	971.8
35°	938.3	940.8	943.3	953.2	954.4
37.5°	914.8	921.0	923.5	937.1	940.8
40°	885.1	892.5	900.0	917.3	919.8
42.5°	848.0	856.6	866.5	885.1	890.0
45°	802.2	810.8	826.9	848.0	854.2
47.5°	755.1	765.0	787.3	809.6	814.5
50°	704.4	719.2	745.2	771.2	774.9
52.5°	658.6	673.4	705.6	732.8	739.0
55°	609.0	625.1	661.0	690.7	699.4
57.5°	559.5	580.6	618.9	648.7	657.3
60°	510.0	532.3	575.6	602.9	614.0
62.5°	461.7	486.5	529.8	560.8	569.4
65°	412.2	439.5	484.0	513.7	523.6
67.5°	361.5	389.9	437.0	466.7	476.6
70°	310.7	342.9	387.5	419.6	428.3
72.5°	262.4	292.1	336.7	365.2	376.3
75°	210.4	243.9	286.0	312.0	319.4
77.5°	163.4	195.6	232.7	248.8	246.3
80°	117.6	151.0	177.0	172.1	164.6
82.5°	79.2	106.5	110.2	102.7	100.3
85°	44.6	59.4	52.0	45.8	43.3
87.5°	18.6	16.1	8.7	3.7	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)