

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: P302157

Luminaire Tested: **ZX-WO-20H940-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302157
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-20H940-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (168)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

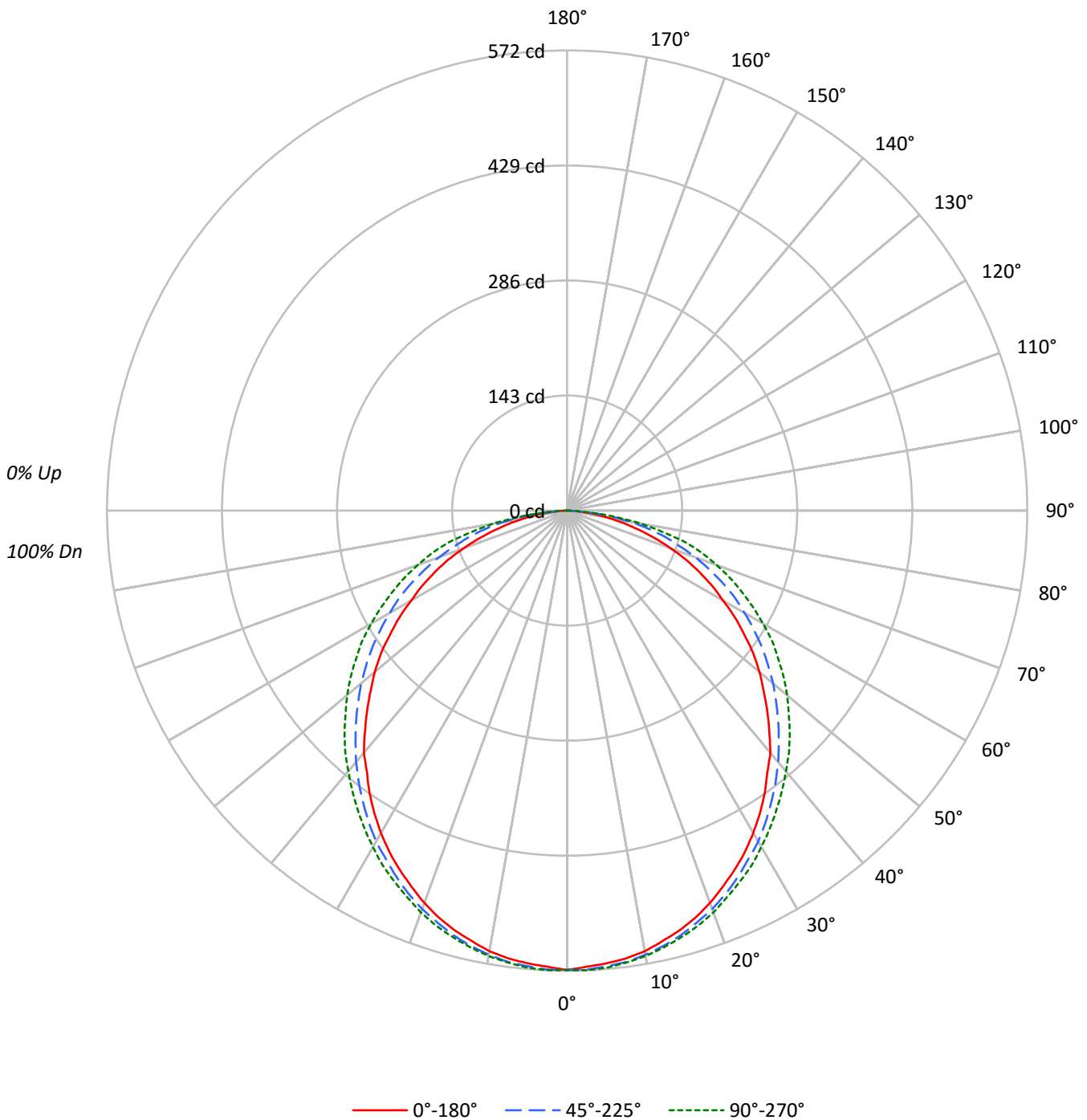
Lumens per Lamp: N/A
Luminaire Lumens: 1636.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1537	1537	1537
5°	1526	1535	1540
10°	1520	1532	1536
15°	1505	1522	1529
20°	1487	1509	1522
25°	1463	1491	1510
30°	1438	1476	1501
35°	1407	1453	1491
40°	1381	1433	1486
45°	1338	1412	1489
50°	1306	1398	1494
55°	1261	1385	1501
60°	1204	1371	1513
65°	1156	1358	1526
70°	1075	1331	1553
75°	952	1301	1586
80°	806	1215	1433
85°	571	843	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.3
10°-20°	153.9	9.4
20°-30°	231.2	14.1
30°-40°	276.6	16.9
40°-50°	286.8	17.5
50°-60°	263.8	16.1
60°-70°	209.3	12.8
70°-80°	129.3	7.9
80°-90°	32.1	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°	439.0	26.8
0°-40°	715.6	43.7
0°-60°	1266.1	77.4
0°-90°	1636.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	565	567	568	570	570	54
15°	540	542	546	549	549	152
25°	493	496	502	508	508	227
35°	428	433	442	451	454	268
45°	352	358	371	386	391	272
55°	269	276	295	316	320	241
65°	182	190	213	234	240	180
75°	92	104	125	144	152	98
85°	18	24	27	27	26	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	571.0	571.0	571.0	571.0	571.0
2.5°	567.5	568.4	571.0	571.9	571.9
5°	564.9	566.6	568.4	570.2	570.2
7.5°	561.4	563.1	565.8	566.6	566.6
10°	556.1	557.8	560.5	562.2	562.2
12.5°	548.1	550.8	554.3	556.1	556.1
15°	540.2	542.0	546.4	549.0	549.0
17.5°	530.5	532.3	536.7	540.2	541.1
20°	519.1	520.8	527.0	530.5	531.4
22.5°	505.8	508.5	515.5	519.1	519.9
25°	492.6	496.1	502.3	507.6	508.5
27.5°	478.5	482.0	488.2	495.3	497.0
30°	462.7	466.2	475.0	481.2	482.9
32.5°	445.9	450.3	459.1	467.1	468.8
35°	428.3	432.7	442.4	451.2	453.8
37.5°	408.9	415.1	425.6	435.3	438.9
40°	393.0	396.6	408.0	419.5	423.0
42.5°	371.9	377.2	389.5	402.7	408.0
45°	351.6	357.8	371.0	386.0	391.3
47.5°	331.3	337.5	352.5	368.4	373.6
50°	312.0	317.2	334.0	351.6	356.9
52.5°	291.7	297.0	314.6	334.0	339.3
55°	268.8	275.8	295.2	315.5	319.9
57.5°	247.6	254.7	274.9	294.3	302.3
60°	223.8	232.6	254.7	274.1	281.1
62.5°	203.6	210.6	235.3	254.7	260.8
65°	181.5	189.5	213.3	233.5	239.7
67.5°	160.4	168.3	191.2	211.5	219.4
70°	136.6	145.4	169.2	189.5	197.4
72.5°	114.6	125.1	146.3	167.4	176.2
75°	91.6	104.0	125.1	144.5	152.5
77.5°	71.4	82.0	102.2	115.4	119.8
80°	52.0	62.6	78.4	87.2	92.5
82.5°	35.2	41.4	53.8	59.9	59.9
85°	18.5	23.8	27.3	27.3	26.4
87.5°	6.2	7.0	5.3	2.6	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)