

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: P302227

Luminaire Tested: **ZX-WO-20L940-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-20L940-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (112)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1720.6 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

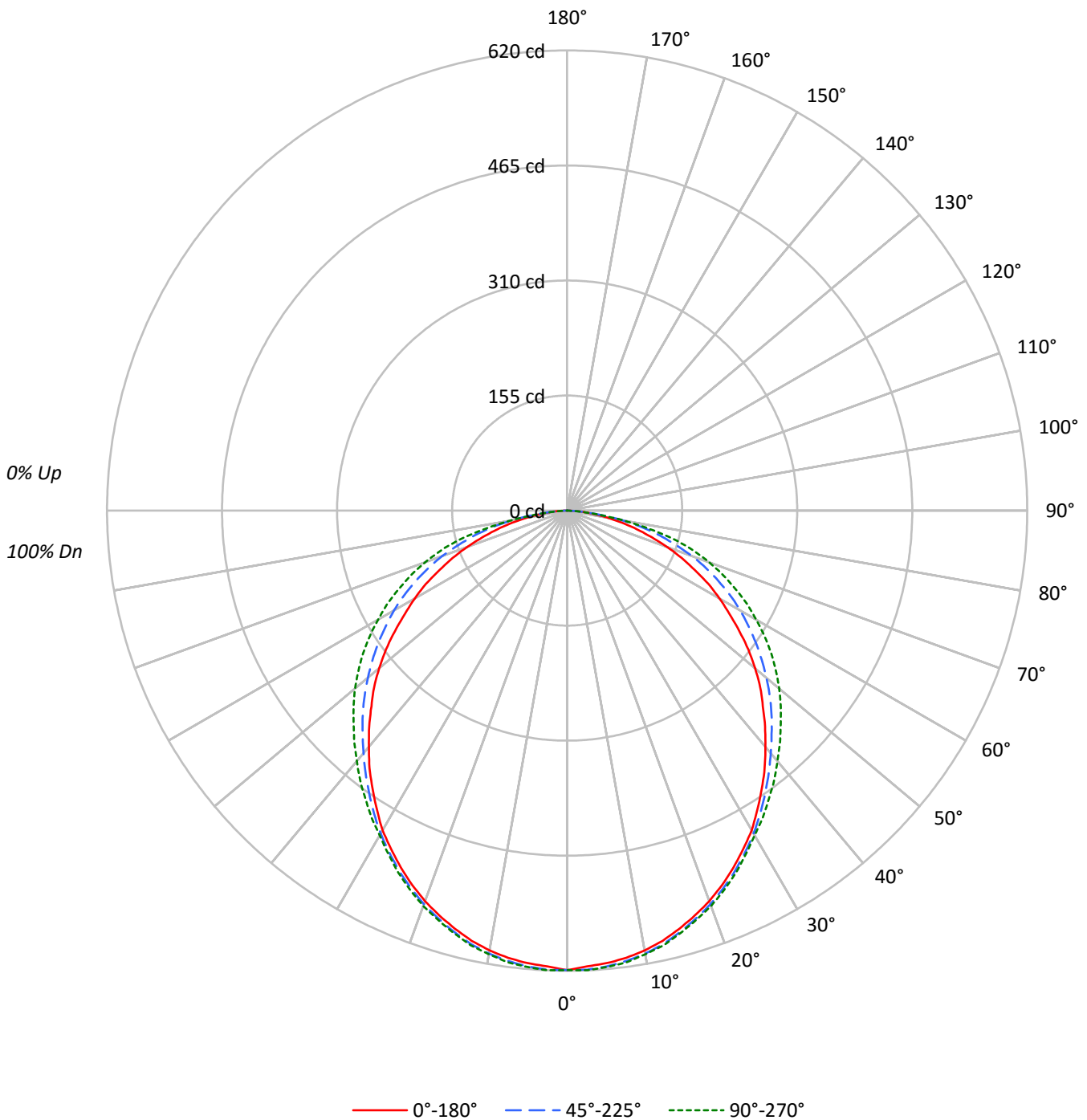
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	76	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1666	1666	1666
5°	1653	1665	1667
10°	1644	1656	1658
15°	1625	1638	1642
20°	1603	1616	1623
25°	1575	1590	1598
30°	1545	1561	1570
35°	1502	1528	1557
40°	1460	1500	1548
45°	1419	1482	1549
50°	1383	1467	1562
55°	1330	1456	1574
60°	1278	1450	1582
65°	1207	1434	1594
70°	1129	1409	1601
75°	1013	1338	1546
80°	849	1172	1185
85°	670	670	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	3.4
10°-20°	165.6	9.6
20°-30°	246.4	14.3
30°-40°	291.4	16.9
40°-50°	301.1	17.5
50°-60°	276.9	16.1
60°-70°	220.2	12.8
70°-80°	131.9	7.7
80°-90°	28.8	1.7
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°	470.4	27.3
0°-40°	761.8	44.3
0°-60°	1339.8	77.9
0°-90°	1720.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1720.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	619	619	619	619	619	
5°	612	614	616	617	617	58
15°	583	585	588	590	590	165
25°	530	532	536	538	538	244
35°	457	460	465	471	474	286
45°	373	376	390	403	407	288
55°	283	290	310	330	336	254
65°	190	201	225	245	250	188
75°	97	110	129	144	149	103
85°	22	24	22	20	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	619.1	619.1	619.1	619.1	619.1
2.5°	614.7	616.4	619.1	619.9	619.9
5°	612.1	613.8	616.4	617.3	617.3
7.5°	607.8	609.5	612.1	613.0	613.8
10°	601.7	603.4	606.0	606.9	606.9
12.5°	593.8	594.7	598.2	599.1	599.9
15°	583.4	585.1	587.8	589.5	589.5
17.5°	572.1	573.8	576.5	578.2	578.2
20°	559.9	561.7	564.3	566.0	566.9
22.5°	546.0	547.8	550.4	553.0	553.0
25°	530.4	532.1	535.6	538.2	538.2
27.5°	513.9	515.6	519.1	521.7	521.7
30°	497.3	498.2	502.5	504.3	505.2
32.5°	477.3	479.9	484.3	487.8	490.4
35°	457.3	459.9	465.2	471.2	473.9
37.5°	437.3	439.9	446.0	454.7	458.2
40°	415.6	419.1	426.9	438.2	440.8
42.5°	394.7	399.1	407.8	420.8	424.3
45°	373.0	376.5	389.5	403.4	406.9
47.5°	353.0	355.6	370.4	386.0	390.4
50°	330.4	333.9	350.4	367.8	373.0
52.5°	307.8	312.1	330.4	348.7	354.7
55°	283.4	289.5	310.4	329.5	335.6
57.5°	259.1	267.8	289.5	308.7	315.6
60°	237.4	245.2	269.5	287.8	293.9
62.5°	214.8	223.5	247.8	266.1	273.9
65°	189.5	200.8	225.2	245.2	250.4
67.5°	166.9	178.2	202.6	220.8	227.8
70°	143.5	156.5	179.1	195.6	203.5
72.5°	119.1	133.0	153.0	170.4	178.2
75°	97.4	110.4	128.7	143.5	148.7
77.5°	75.6	87.8	102.6	111.3	113.0
80°	54.8	64.3	75.6	77.4	76.5
82.5°	36.5	43.5	47.0	45.2	45.2
85°	21.7	23.5	21.7	20.0	17.4
87.5°	7.8	7.0	5.2	3.5	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)