

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: P302468

Luminaire Tested: **ZX-WO-70L940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302468
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-70L940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5733.8 lumens
Efficiency: N/A
Efficacy: 112.4 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

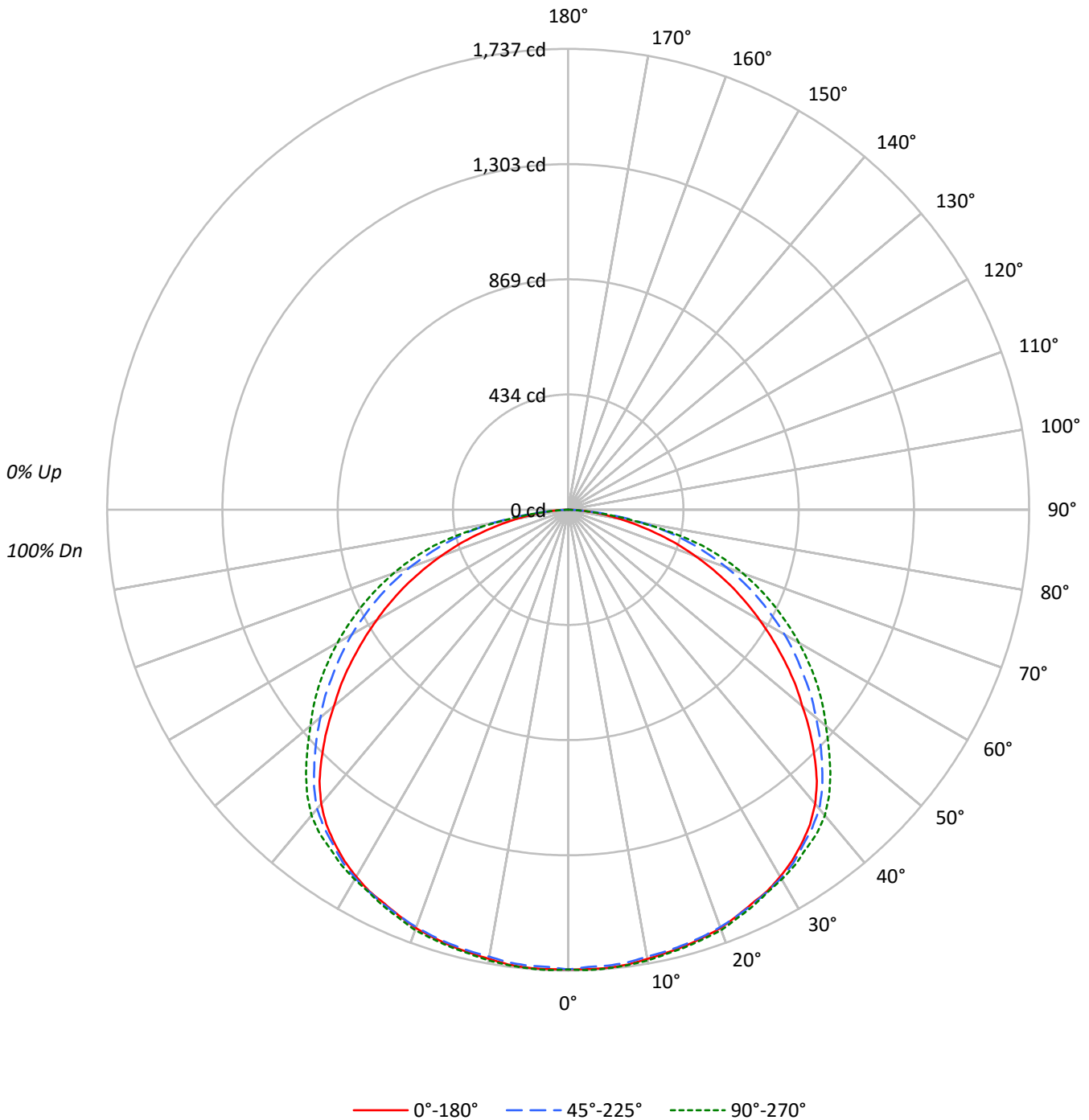
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2332	2332	2332
5°	2341	2330	2344
10°	2349	2338	2357
15°	2372	2363	2378
20°	2403	2398	2415
25°	2432	2438	2447
30°	2482	2491	2501
35°	2521	2534	2564
40°	2543	2585	2642
45°	2496	2574	2658
50°	2412	2551	2653
55°	2337	2536	2684
60°	2245	2534	2703
65°	2146	2521	2727
70°	1999	2493	2756
75°	1789	2431	2716
80°	1491	2243	2087
85°	1125	1312	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.9	2.9
10°-20°	481.7	8.4
20°-30°	759.7	13.2
30°-40°	969.9	16.9
40°-50°	1044.7	18.2
50°-60°	962.6	16.8
60°-70°	769.9	13.4
70°-80°	472.6	8.2
80°-90°	107.8	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°	1406.3	24.5
0°-40°	2376.2	41.4
0°-60°	4383.5	76.5
0°-90°	5733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5733.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1733	1733	1725	1735	1735	165
15°	1703	1705	1697	1707	1707	482
25°	1638	1640	1642	1650	1648	758
35°	1535	1539	1543	1559	1561	960
45°	1312	1326	1352	1387	1397	1010
55°	996	1022	1081	1130	1144	890
65°	674	719	792	840	856	666
75°	344	399	468	510	522	367
85°	73	97	85	75	71	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1733.2	1733.2	1733.2	1733.2	1733.2
2.5°	1733.2	1735.2	1725.1	1735.2	1737.2
5°	1733.2	1733.2	1725.1	1735.2	1735.2
7.5°	1729.1	1729.1	1721.0	1731.2	1731.2
10°	1719.0	1719.0	1710.9	1721.0	1725.1
12.5°	1710.9	1710.9	1704.8	1715.0	1715.0
15°	1702.8	1704.8	1696.7	1706.9	1706.9
17.5°	1690.7	1690.7	1686.6	1694.7	1696.7
20°	1678.5	1678.5	1674.5	1684.6	1686.6
22.5°	1658.3	1660.3	1658.3	1666.4	1666.4
25°	1638.0	1640.1	1642.1	1650.2	1648.2
27.5°	1621.8	1623.9	1623.9	1632.0	1625.9
30°	1597.5	1603.6	1603.6	1607.7	1609.7
32.5°	1569.2	1577.3	1579.3	1587.4	1589.4
35°	1534.8	1538.8	1542.9	1559.1	1561.1
37.5°	1496.3	1506.4	1510.5	1532.7	1538.8
40°	1447.7	1459.9	1472.0	1500.3	1504.4
42.5°	1387.0	1401.1	1417.3	1447.7	1455.8
45°	1312.0	1326.2	1352.5	1387.0	1397.1
47.5°	1235.1	1251.3	1287.7	1324.2	1332.3
50°	1152.1	1176.4	1218.9	1261.4	1267.5
52.5°	1077.2	1101.5	1154.1	1198.7	1208.8
55°	996.2	1022.5	1081.2	1129.8	1144.0
57.5°	915.2	949.6	1012.4	1061.0	1075.1
60°	834.2	870.6	941.5	986.1	1004.3
62.5°	755.2	795.7	866.6	917.2	931.4
65°	674.2	718.8	791.7	840.3	856.5
67.5°	591.2	637.8	714.7	763.3	779.5
70°	508.2	560.9	633.7	686.4	700.6
72.5°	429.2	477.8	550.7	597.3	615.5
75°	344.2	398.9	467.7	510.2	522.4
77.5°	267.3	319.9	380.7	407.0	402.9
80°	192.4	247.0	289.5	281.4	269.3
82.5°	129.6	174.1	180.2	168.1	164.0
85°	72.9	97.2	85.0	74.9	70.9
87.5°	30.4	26.3	14.2	6.1	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)