

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: P302448

Luminaire Tested: **ZX-WO-70L930-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302448
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-70L930-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5419.8 lumens
Efficiency: N/A
Efficacy: 106.3 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

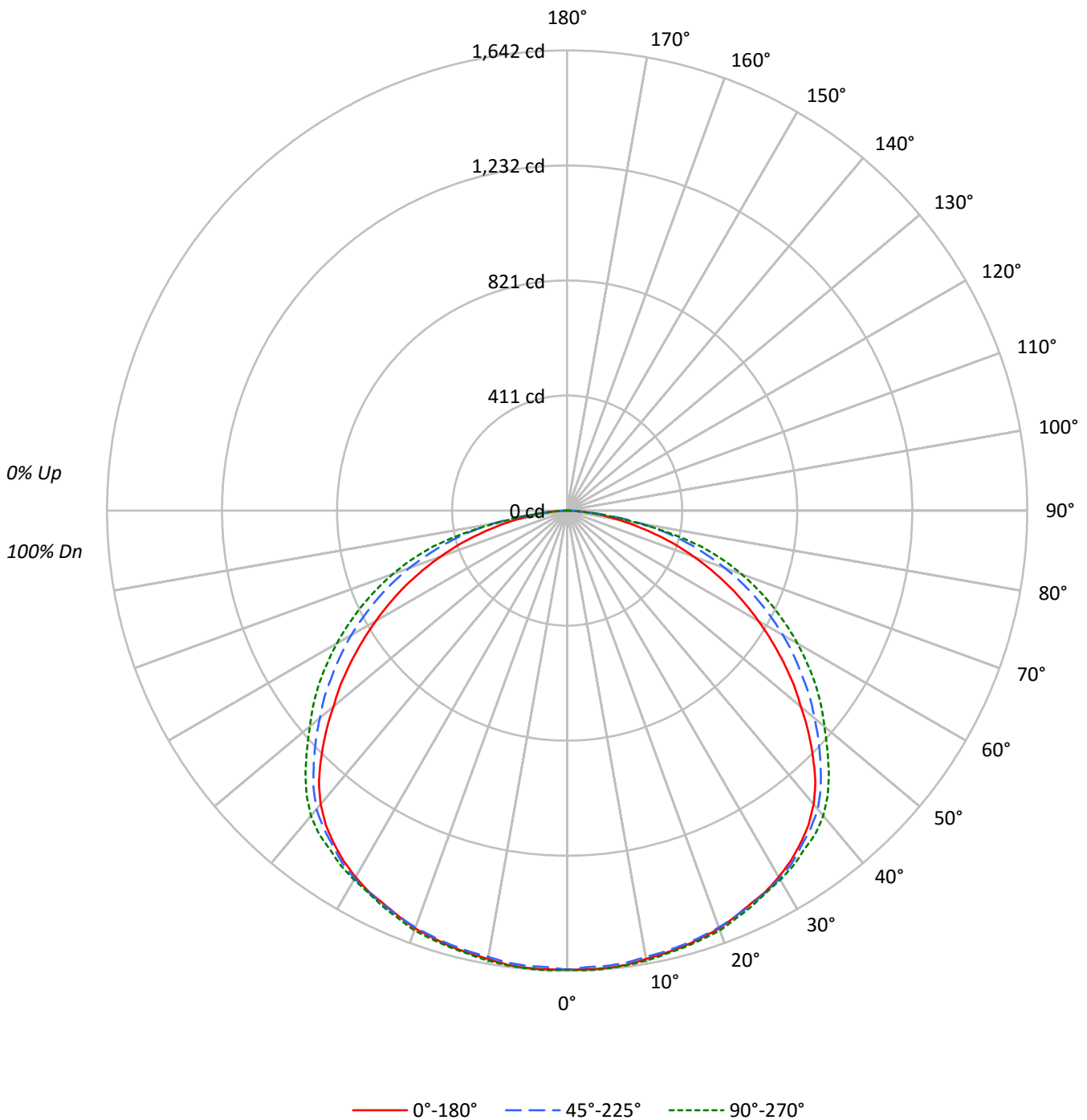
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2204	2204	2204
5°	2213	2202	2215
10°	2220	2209	2228
15°	2242	2234	2247
20°	2272	2266	2283
25°	2299	2304	2313
30°	2346	2355	2364
35°	2383	2395	2424
40°	2403	2444	2498
45°	2360	2433	2513
50°	2280	2412	2508
55°	2209	2397	2537
60°	2122	2395	2555
65°	2029	2382	2578
70°	1890	2356	2605
75°	1692	2298	2567
80°	1409	2121	1972
85°	1064	1241	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.9
10°-20°	455.3	8.4
20°-30°	718.1	13.2
30°-40°	916.8	16.9
40°-50°	987.5	18.2
50°-60°	909.9	16.8
60°-70°	727.8	13.4
70°-80°	446.7	8.2
80°-90°	101.9	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°	1329.3	24.5
0°-40°	2246.1	41.4
0°-60°	4143.5	76.5
0°-90°	5419.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5419.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1638	1638	1631	1640	1640	156
15°	1610	1612	1604	1613	1613	455
25°	1548	1550	1552	1560	1558	716
35°	1451	1455	1458	1474	1476	907
45°	1240	1254	1278	1311	1321	955
55°	942	966	1022	1068	1081	842
65°	637	679	748	794	810	629
75°	325	377	442	482	494	347
85°	69	92	80	71	67	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.3	1638.3	1638.3	1638.3	1638.3
2.5°	1638.3	1640.2	1630.6	1640.2	1642.1
5°	1638.3	1638.3	1630.6	1640.2	1640.2
7.5°	1634.5	1634.5	1626.8	1636.4	1636.4
10°	1624.9	1624.9	1617.2	1626.8	1630.6
12.5°	1617.2	1617.2	1611.5	1621.1	1621.1
15°	1609.6	1611.5	1603.8	1613.4	1613.4
17.5°	1598.1	1598.1	1594.3	1601.9	1603.8
20°	1586.6	1586.6	1582.8	1592.4	1594.3
22.5°	1567.5	1569.4	1567.5	1575.1	1575.1
25°	1548.3	1550.3	1552.2	1559.8	1557.9
27.5°	1533.0	1534.9	1534.9	1542.6	1536.9
30°	1510.1	1515.8	1515.8	1519.6	1521.5
32.5°	1483.3	1490.9	1492.8	1500.5	1502.4
35°	1450.7	1454.6	1458.4	1473.7	1475.6
37.5°	1414.4	1423.9	1427.8	1448.8	1454.6
40°	1368.4	1379.9	1391.4	1418.2	1422.0
42.5°	1311.0	1324.4	1339.7	1368.4	1376.1
45°	1240.2	1253.6	1278.5	1311.0	1320.6
47.5°	1167.5	1182.8	1217.2	1251.7	1259.3
50°	1089.0	1112.0	1152.2	1192.4	1198.1
52.5°	1018.2	1041.2	1090.9	1133.0	1142.6
55°	941.6	966.5	1022.0	1068.0	1081.3
57.5°	865.1	897.6	956.9	1002.9	1016.3
60°	788.5	823.0	890.0	932.1	949.3
62.5°	713.9	752.2	819.1	867.0	880.4
65°	637.3	679.4	748.3	794.3	809.6
67.5°	558.9	602.9	675.6	721.5	736.8
70°	480.4	530.1	599.0	648.8	662.2
72.5°	405.7	451.7	520.6	564.6	581.8
75°	325.4	377.0	442.1	482.3	493.8
77.5°	252.6	302.4	359.8	384.7	380.9
80°	181.8	233.5	273.7	266.0	254.5
82.5°	122.5	164.6	170.3	158.9	155.0
85°	68.9	91.9	80.4	70.8	67.0
87.5°	28.7	24.9	13.4	5.7	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)