

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: P258443

Luminaire Tested: **D3X-WG-50L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-50L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4573.2 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

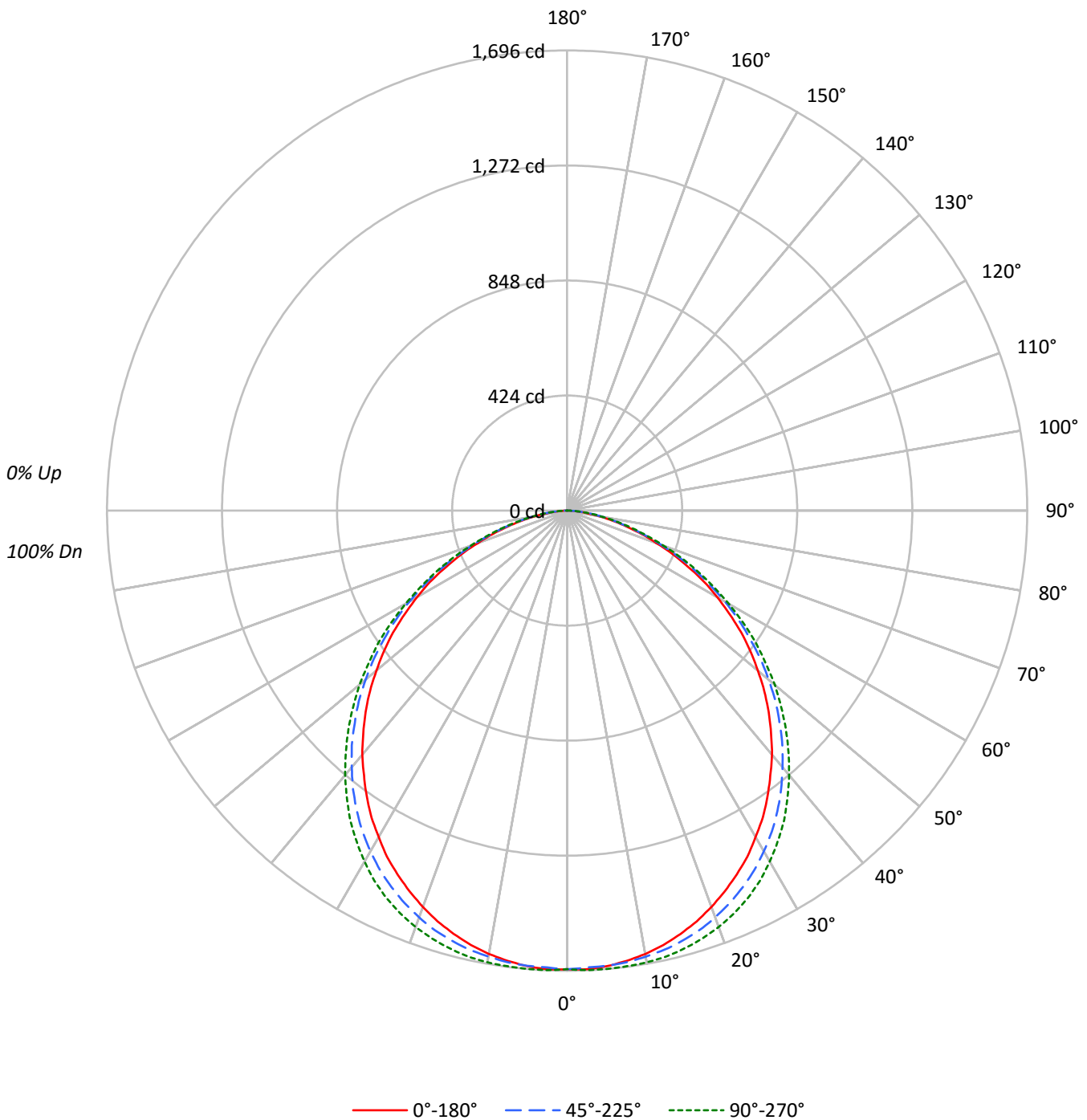
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258443

CATALOG NUMBER: D3X-WG-50L840-LD5-UNV-24-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P258443

CATALOG NUMBER: D3X-WG-50L840-LD5-UNV-24-T1-STD

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	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2275	2275	2275
5°	2277	2275	2290
10°	2267	2281	2310
15°	2250	2287	2328
20°	2226	2285	2339
25°	2196	2274	2340
30°	2158	2252	2321
35°	2115	2220	2290
40°	2063	2170	2236
45°	1998	2107	2170
50°	1920	2030	2092
55°	1837	1929	1991
60°	1719	1808	1851
65°	1570	1653	1695
70°	1379	1450	1489
75°	1167	1226	1269
80°	927	1016	1041
85°	633	758	733



TEST NUMBER: P258443

CATALOG NUMBER: D3X-WG-50L840-LD5-UNV-24-T1-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	3.5
10°-20°	463.8	10.1
20°-30°	704.8	15.4
30°-40°	841.0	18.4
40°-50°	849.4	18.6
50°-60°	731.8	16.0
60°-70°	510.1	11.2
70°-80°	252.8	5.5
80°-90°	58.9	1.3
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°	1329.2	29.1
0°-40°	2170.2	47.5
0°-60°	3751.3	82.0
0°-90°	4573.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4573.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1686	1684	1684	1692	1696	160
15°	1615	1624	1642	1663	1671	456
25°	1479	1499	1532	1563	1576	681
35°	1288	1309	1352	1383	1394	805
45°	1050	1073	1107	1134	1140	809
55°	783	799	822	842	849	698
65°	493	503	519	524	532	490
75°	224	228	236	241	244	242
85°	41	49	49	46	48	52
90°	0	0	0	0	0	



TEST NUMBER: P258443

CATALOG NUMBER: D3X-WG-50L840-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.6	1690.6	1690.6	1690.6	1690.6
2.5°	1692.3	1689.0	1685.7	1692.3	1695.5
5°	1685.7	1684.1	1684.1	1692.3	1695.5
7.5°	1674.2	1674.2	1679.2	1690.6	1693.9
10°	1659.5	1662.8	1669.3	1685.7	1690.6
12.5°	1639.8	1646.4	1657.9	1677.5	1684.1
15°	1615.3	1623.5	1641.5	1662.8	1671.0
17.5°	1587.4	1598.9	1621.8	1646.4	1654.6
20°	1554.7	1569.4	1595.6	1623.5	1633.3
22.5°	1518.6	1536.6	1566.1	1595.6	1607.1
25°	1479.3	1499.0	1531.7	1562.8	1575.9
27.5°	1438.3	1458.0	1494.0	1525.2	1538.3
30°	1389.2	1412.1	1449.8	1482.6	1494.0
32.5°	1341.7	1364.6	1403.9	1433.4	1444.9
35°	1287.6	1308.9	1351.5	1382.6	1394.1
37.5°	1230.3	1254.9	1295.8	1323.7	1333.5
40°	1174.6	1195.9	1235.2	1263.1	1272.9
42.5°	1112.3	1135.3	1174.6	1199.2	1207.4
45°	1050.1	1073.0	1107.4	1133.6	1140.2
47.5°	986.2	1007.5	1041.9	1063.2	1069.7
50°	917.4	937.0	969.8	991.1	999.3
52.5°	851.9	869.9	897.7	915.8	920.7
55°	783.1	799.4	822.4	842.0	848.6
57.5°	709.3	727.4	748.7	765.0	770.0
60°	638.9	653.6	671.7	686.4	688.0
62.5°	570.1	576.6	593.0	606.1	607.8
65°	493.1	502.9	519.3	524.2	532.4
67.5°	422.7	429.2	442.3	448.9	455.4
70°	350.6	355.5	368.6	376.8	378.4
72.5°	288.3	290.0	299.8	306.3	308.0
75°	224.4	227.7	235.9	240.8	244.1
77.5°	170.4	173.6	180.2	183.5	183.5
80°	119.6	124.5	131.1	132.7	134.3
82.5°	77.0	83.5	88.5	90.1	86.8
85°	41.0	49.1	49.1	45.9	47.5
87.5°	14.7	18.0	19.7	21.3	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)