

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: P258372

Luminaire Tested: **D3X-WD-42L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-42L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

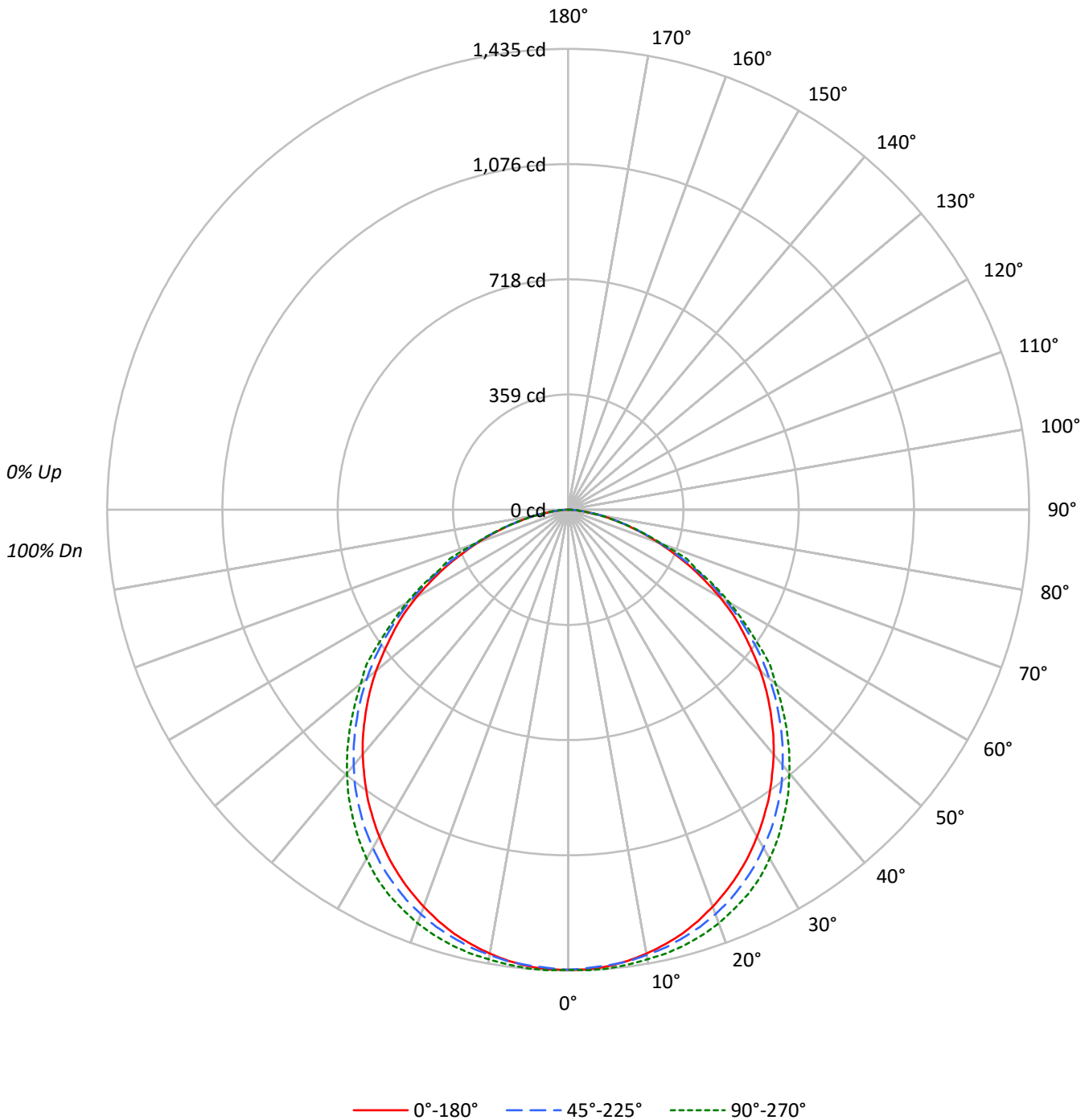
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258372

CATALOG NUMBER: D3X-WD-42L840-LD5-UNV-24-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P258372

CATALOG NUMBER: D3X-WD-42L840-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	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
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	48	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	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1928	1928	1928
5°	1927	1924	1937
10°	1918	1923	1942
15°	1905	1923	1955
20°	1883	1919	1962
25°	1859	1908	1963
30°	1827	1889	1949
35°	1791	1862	1920
40°	1749	1824	1882
45°	1695	1774	1829
50°	1634	1711	1764
55°	1559	1630	1679
60°	1469	1525	1562
65°	1335	1378	1405
70°	1172	1199	1215
75°	989	1003	1011
80°	790	801	780
85°	533	553	533



TEST NUMBER: P258372

CATALOG NUMBER: D3X-WD-42L840-LD5-UNV-24-T1-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.5
10°-20°	390.4	10.2
20°-30°	592.4	15.4
30°-40°	707.2	18.4
40°-50°	716.0	18.6
50°-60°	618.9	16.1
60°-70°	429.0	11.2
70°-80°	207.6	5.4
80°-90°	45.6	1.2
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°	1118.6	29.1
0°-40°	1825.8	47.5
0°-60°	3160.7	82.2
0°-90°	3842.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1427	1426	1424	1431	1434	135
15°	1368	1370	1380	1397	1404	385
25°	1252	1260	1285	1311	1322	577
35°	1091	1100	1133	1162	1169	681
45°	891	903	932	956	961	687
55°	665	672	695	724	716	594
65°	419	423	433	440	441	415
75°	190	192	193	192	194	204
85°	34	37	36	34	34	45
90°	0	0	0	0	0	



TEST NUMBER: P258372

CATALOG NUMBER: D3X-WD-42L840-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.6	1432.6	1432.6	1432.6	1432.6
2.5°	1432.6	1431.2	1428.5	1432.6	1435.4
5°	1427.1	1425.7	1424.3	1431.2	1434.0
7.5°	1417.4	1417.4	1418.8	1425.7	1428.5
10°	1403.6	1405.0	1407.8	1418.8	1421.6
12.5°	1387.1	1389.9	1396.7	1409.2	1414.7
15°	1367.8	1370.5	1380.2	1396.7	1403.6
17.5°	1343.0	1348.5	1362.3	1381.6	1388.5
20°	1315.4	1322.3	1340.2	1362.3	1370.5
22.5°	1285.1	1292.0	1315.4	1338.8	1347.1
25°	1252.0	1260.2	1285.1	1311.3	1322.3
27.5°	1216.1	1225.8	1253.3	1280.9	1292.0
30°	1176.1	1187.2	1216.1	1245.1	1254.7
32.5°	1133.4	1144.4	1177.5	1205.1	1214.7
35°	1090.6	1100.3	1133.4	1162.3	1169.2
37.5°	1042.4	1053.4	1089.3	1114.1	1123.7
40°	995.5	1006.5	1038.3	1063.1	1071.3
42.5°	944.5	955.5	987.2	1010.7	1017.6
45°	890.7	903.1	932.1	955.5	961.0
47.5°	836.9	846.6	876.9	897.6	901.7
50°	780.4	790.1	817.6	838.3	842.5
52.5°	721.1	736.3	758.4	773.5	791.4
55°	664.6	671.5	694.9	723.9	715.6
57.5°	608.1	612.2	631.5	643.9	646.7
60°	546.0	551.5	566.7	573.6	580.5
62.5°	481.2	485.3	503.3	510.2	512.9
65°	419.2	423.3	432.9	439.8	441.2
67.5°	355.7	359.9	368.1	373.7	398.5
70°	297.8	300.6	304.7	315.7	308.9
72.5°	242.7	244.1	248.2	248.2	249.6
75°	190.3	191.7	193.0	191.7	194.4
77.5°	142.0	144.8	146.2	144.8	143.4
80°	102.0	104.8	103.4	100.7	100.7
82.5°	66.2	67.6	66.2	64.8	64.8
85°	34.5	37.2	35.8	34.5	34.5
87.5°	12.4	13.8	15.2	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)