

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: P258378

Luminaire Tested: **D3X-WD-45L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258378
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-45L840-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: 4152.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

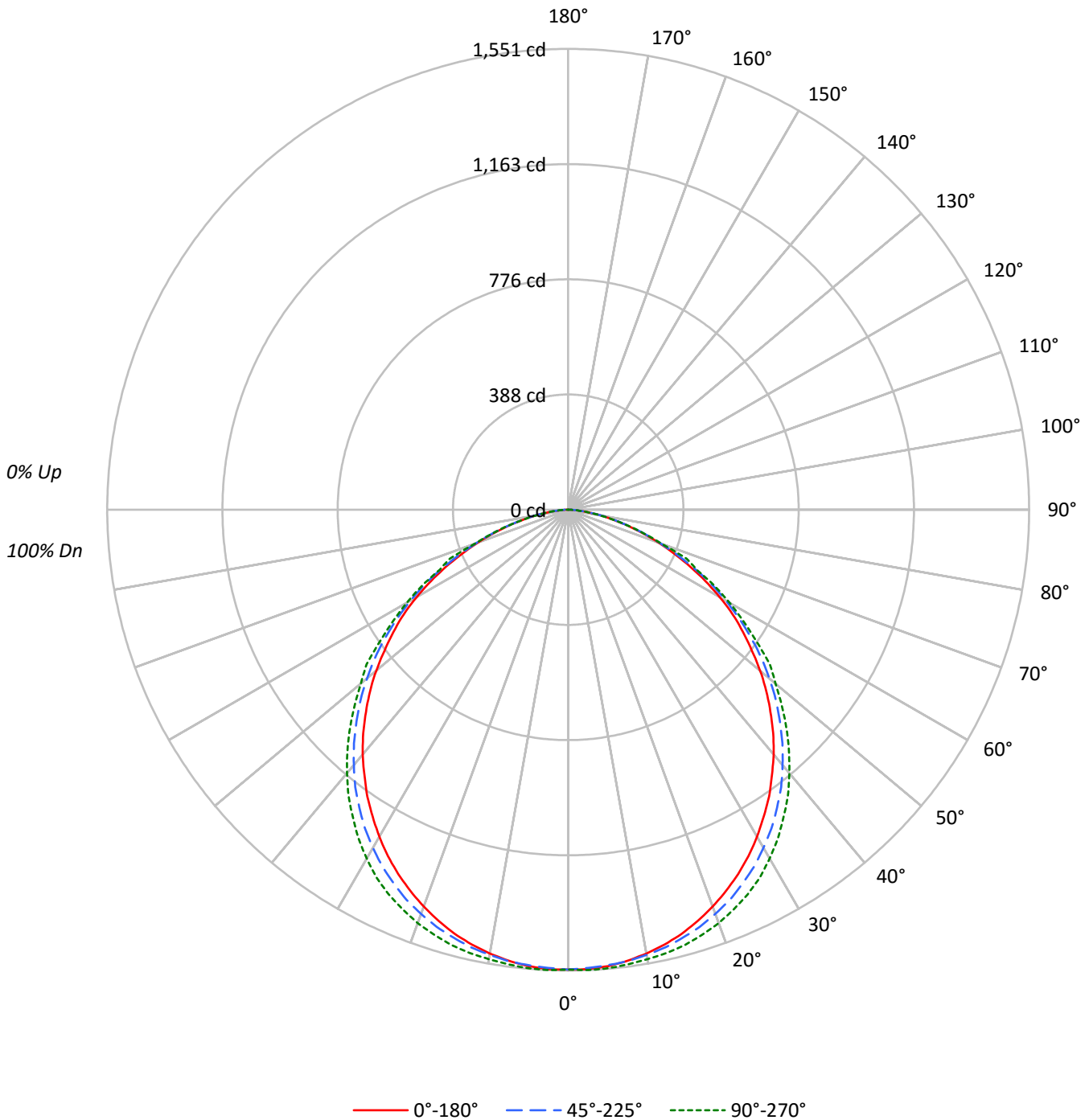
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2083	2083	2083
5°	2083	2078	2093
10°	2072	2078	2098
15°	2059	2077	2113
20°	2035	2073	2120
25°	2008	2061	2121
30°	1974	2041	2106
35°	1936	2011	2075
40°	1889	1970	2033
45°	1831	1916	1976
50°	1765	1849	1905
55°	1685	1761	1814
60°	1587	1648	1688
65°	1442	1489	1518
70°	1266	1295	1313
75°	1069	1084	1092
80°	854	865	843
85°	574	597	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.5
10°-20°	421.8	10.2
20°-30°	640.0	15.4
30°-40°	764.1	18.4
40°-50°	773.6	18.6
50°-60°	668.7	16.1
60°-70°	463.5	11.2
70°-80°	224.3	5.4
80°-90°	49.3	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°	1208.6	29.1
0°-40°	1972.7	47.5
0°-60°	3415.0	82.2
0°-90°	4152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1542	1540	1539	1546	1549	146
15°	1478	1481	1491	1509	1517	416
25°	1353	1362	1388	1417	1429	623
35°	1178	1189	1225	1256	1263	736
45°	962	976	1007	1032	1038	742
55°	718	726	751	782	773	642
65°	453	457	468	475	477	448
75°	206	207	209	207	210	221
85°	37	40	39	37	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1547.8	1547.8	1547.8	1547.8	1547.8
2.5°	1547.8	1546.3	1543.4	1547.8	1550.8
5°	1541.9	1540.4	1538.9	1546.3	1549.3
7.5°	1531.4	1531.4	1532.9	1540.4	1543.4
10°	1516.6	1518.0	1521.0	1532.9	1535.9
12.5°	1498.7	1501.7	1509.1	1522.5	1528.5
15°	1477.8	1480.8	1491.2	1509.1	1516.6
17.5°	1451.0	1457.0	1471.9	1492.7	1500.2
20°	1421.2	1428.7	1448.0	1471.9	1480.8
22.5°	1388.4	1395.9	1421.2	1446.5	1455.5
25°	1352.7	1361.6	1388.4	1416.7	1428.7
27.5°	1313.9	1324.4	1354.2	1384.0	1395.9
30°	1270.7	1282.7	1313.9	1345.2	1355.7
32.5°	1224.6	1236.5	1272.2	1302.0	1312.5
35°	1178.4	1188.8	1224.6	1255.8	1263.3
37.5°	1126.2	1138.2	1176.9	1203.7	1214.1
40°	1075.6	1087.5	1121.8	1148.6	1157.5
42.5°	1020.5	1032.4	1066.7	1092.0	1099.4
45°	962.4	975.8	1007.1	1032.4	1038.3
47.5°	904.3	914.7	947.5	969.8	974.3
50°	843.2	853.6	883.4	905.8	910.2
52.5°	779.1	795.5	819.4	835.7	855.1
55°	718.1	725.5	750.8	782.1	773.2
57.5°	657.0	661.4	682.3	695.7	698.7
60°	589.9	595.9	612.3	619.7	627.2
62.5°	519.9	524.4	543.8	551.2	554.2
65°	452.9	457.3	467.8	475.2	476.7
67.5°	384.4	388.8	397.8	403.7	430.5
70°	321.8	324.8	329.2	341.1	333.7
72.5°	262.2	263.7	268.2	268.2	269.6
75°	205.6	207.1	208.6	207.1	210.1
77.5°	153.4	156.4	157.9	156.4	154.9
80°	110.2	113.2	111.7	108.8	108.8
82.5°	71.5	73.0	71.5	70.0	70.0
85°	37.2	40.2	38.7	37.2	37.2
87.5°	13.4	14.9	16.4	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)