

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: P258393

Luminaire Tested: **D3X-WD-55L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258393
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-55L940-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4480.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

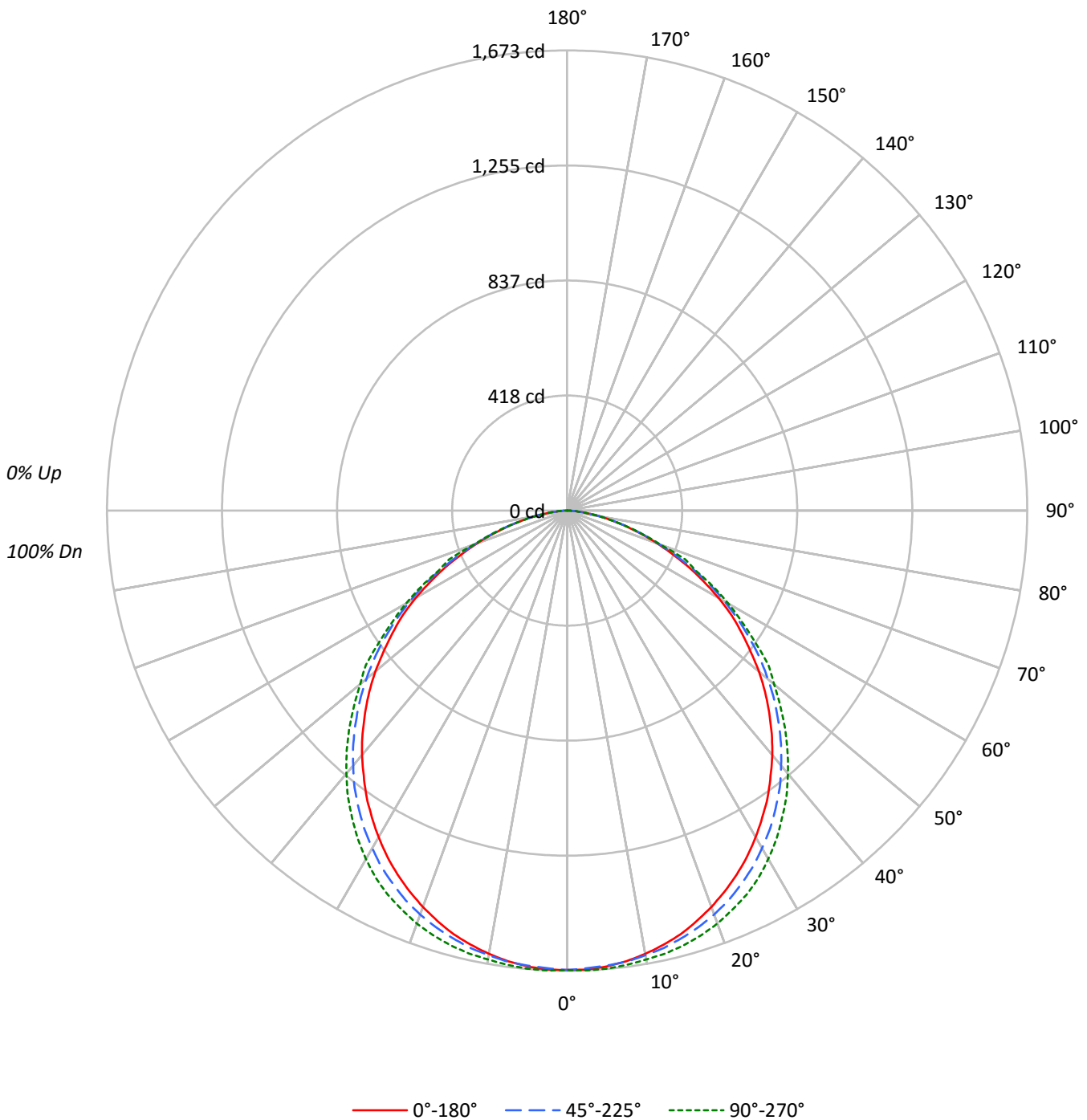
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2247	2247	2247
5°	2247	2243	2258
10°	2236	2242	2264
15°	2221	2241	2279
20°	2196	2237	2288
25°	2167	2224	2288
30°	2130	2203	2273
35°	2088	2170	2239
40°	2038	2126	2194
45°	1976	2068	2132
50°	1904	1995	2056
55°	1818	1900	1957
60°	1713	1778	1821
65°	1556	1607	1638
70°	1366	1397	1417
75°	1153	1170	1178
80°	921	934	909
85°	621	645	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	3.5
10°-20°	455.2	10.2
20°-30°	690.6	15.4
30°-40°	824.5	18.4
40°-50°	834.7	18.6
50°-60°	721.5	16.1
60°-70°	500.1	11.2
70°-80°	241.9	5.4
80°-90°	53.2	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°	1304.0	29.1
0°-40°	2128.5	47.5
0°-60°	3684.8	82.2
0°-90°	4480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1664	1662	1660	1668	1672	158
15°	1595	1598	1609	1628	1636	449
25°	1460	1469	1498	1529	1542	672
35°	1272	1283	1321	1355	1363	794
45°	1038	1053	1087	1114	1120	801
55°	775	783	810	844	834	692
65°	489	494	505	513	514	484
75°	222	223	225	223	227	238
85°	40	43	42	40	40	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1670.1	1670.1	1670.1	1670.1	1670.1
2.5°	1670.1	1668.5	1665.3	1670.1	1673.3
5°	1663.7	1662.1	1660.5	1668.5	1671.7
7.5°	1652.4	1652.4	1654.0	1662.1	1665.3
10°	1636.4	1638.0	1641.2	1654.0	1657.2
12.5°	1617.1	1620.3	1628.3	1642.8	1649.2
15°	1594.6	1597.8	1609.0	1628.3	1636.4
17.5°	1565.6	1572.1	1588.1	1610.6	1618.7
20°	1533.5	1541.5	1562.4	1588.1	1597.8
22.5°	1498.1	1506.2	1533.5	1560.8	1570.4
25°	1459.5	1469.2	1498.1	1528.7	1541.5
27.5°	1417.7	1429.0	1461.1	1493.3	1506.2
30°	1371.1	1384.0	1417.7	1451.5	1462.8
32.5°	1321.3	1334.2	1372.7	1404.9	1416.1
35°	1271.5	1282.7	1321.3	1355.1	1363.1
37.5°	1215.2	1228.1	1269.9	1298.8	1310.0
40°	1160.6	1173.4	1210.4	1239.3	1249.0
42.5°	1101.1	1113.9	1150.9	1178.2	1186.3
45°	1038.4	1052.9	1086.6	1113.9	1120.4
47.5°	975.7	987.0	1022.3	1046.4	1051.3
50°	909.8	921.1	953.2	977.3	982.1
52.5°	840.7	858.4	884.1	901.8	922.7
55°	774.8	782.8	810.1	843.9	834.2
57.5°	708.9	713.7	736.2	750.7	753.9
60°	636.5	643.0	660.6	668.7	676.7
62.5°	561.0	565.8	586.7	594.7	598.0
65°	488.7	493.5	504.7	512.8	514.4
67.5°	414.7	419.5	429.2	435.6	464.5
70°	347.2	350.4	355.2	368.1	360.1
72.5°	282.9	284.5	289.3	289.3	290.9
75°	221.8	223.4	225.0	223.4	226.6
77.5°	165.6	168.8	170.4	168.8	167.2
80°	118.9	122.2	120.6	117.3	117.3
82.5°	77.2	78.8	77.2	75.5	75.5
85°	40.2	43.4	41.8	40.2	40.2
87.5°	14.5	16.1	17.7	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)