

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: P258373

Luminaire Tested: **D3X-WD-42L930-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258373
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-42L930-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3190.1 lumens
Efficiency: N/A
Efficacy: 102.2 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

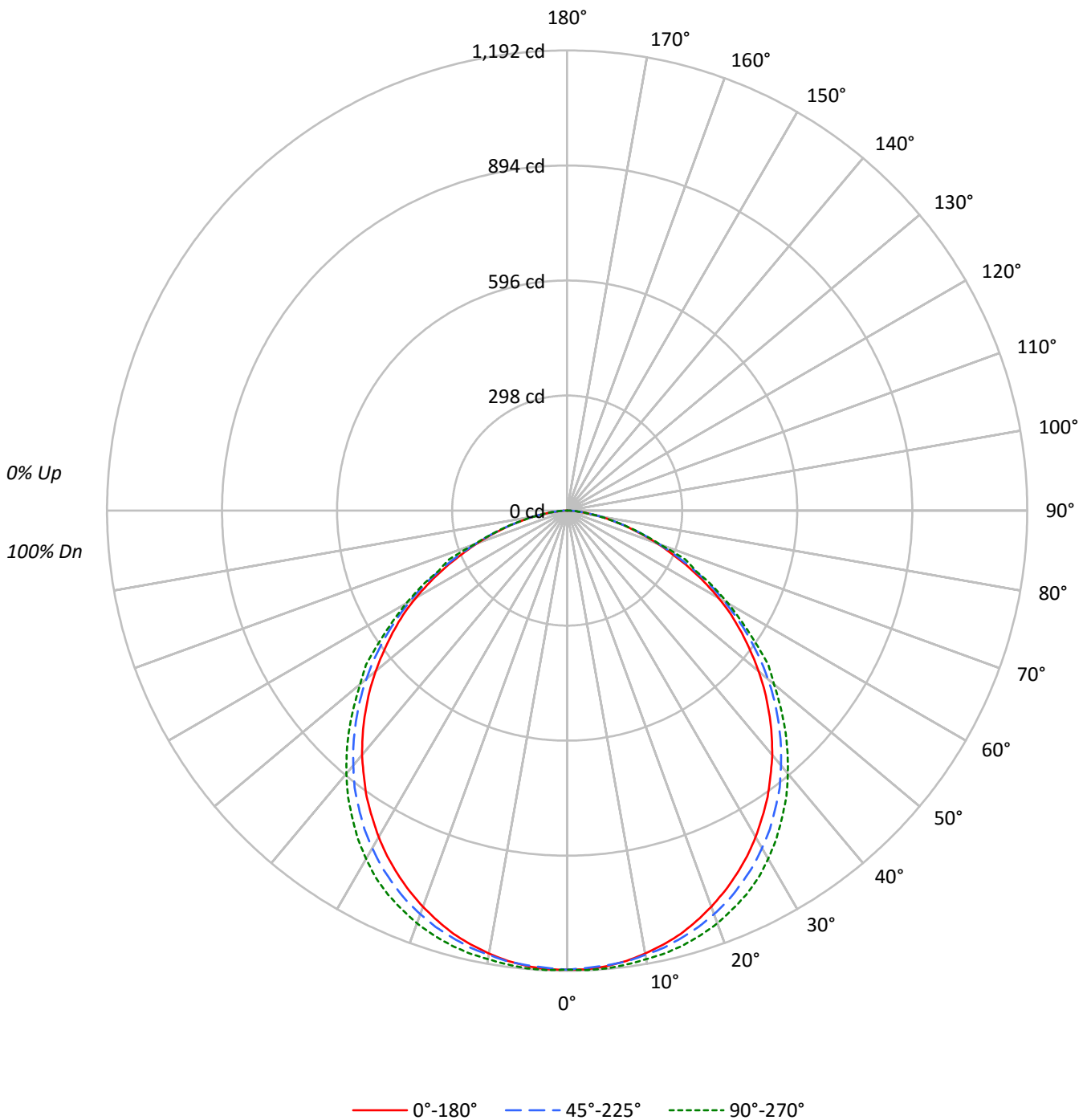
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1600	1600	1600
5°	1600	1597	1608
10°	1592	1597	1612
15°	1582	1596	1623
20°	1564	1593	1629
25°	1543	1584	1630
30°	1517	1568	1618
35°	1487	1545	1594
40°	1451	1514	1562
45°	1407	1472	1518
50°	1356	1421	1464
55°	1294	1353	1394
60°	1220	1266	1297
65°	1108	1144	1166
70°	972	995	1009
75°	821	833	839
80°	656	665	648
85°	442	460	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.5
10°-20°	324.1	10.2
20°-30°	491.8	15.4
30°-40°	587.1	18.4
40°-50°	594.4	18.6
50°-60°	513.8	16.1
60°-70°	356.1	11.2
70°-80°	172.3	5.4
80°-90°	37.9	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°	928.6	29.1
0°-40°	1515.7	47.5
0°-60°	2623.8	82.2
0°-90°	3190.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3190.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1185	1184	1182	1188	1190	112
15°	1136	1138	1146	1160	1165	320
25°	1039	1046	1067	1088	1098	479
35°	905	913	941	965	971	566
45°	739	750	774	793	798	570
55°	552	557	577	601	594	493
65°	348	351	359	365	366	344
75°	158	159	160	159	161	170
85°	29	31	30	29	29	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.2	1189.2	1189.2	1189.2	<i>1189.2</i>
2.5°	<i>1189.2</i>	<i>1188.1</i>	<i>1185.8</i>	<i>1189.2</i>	<i>1191.5</i>
5°	1184.7	1183.5	1182.4	1188.1	<i>1190.4</i>
7.5°	1176.7	1176.7	1177.8	1183.5	<i>1185.8</i>
10°	1165.2	1166.4	1168.6	1177.8	<i>1180.1</i>
12.5°	1151.5	1153.8	1159.5	1169.8	<i>1174.4</i>
15°	1135.5	1137.7	1145.8	1159.5	<i>1165.2</i>
17.5°	1114.8	1119.4	1130.9	1146.9	<i>1152.6</i>
20°	1092.0	1097.7	1112.6	1130.9	<i>1137.7</i>
22.5°	1066.8	1072.5	1092.0	1111.4	<i>1118.3</i>
25°	1039.3	1046.2	1066.8	1088.5	<i>1097.7</i>
27.5°	1009.5	1017.6	1040.4	1063.3	<i>1072.5</i>
30°	976.4	985.5	1009.5	1033.6	<i>1041.6</i>
32.5°	940.9	950.0	977.5	1000.4	<i>1008.4</i>
35°	905.4	913.4	940.9	964.9	<i>970.6</i>
37.5°	865.3	874.5	904.2	924.8	<i>932.9</i>
40°	826.4	835.6	861.9	882.5	<i>889.4</i>
42.5°	784.1	793.2	819.5	839.0	<i>844.7</i>
45°	739.4	749.7	773.8	793.2	<i>797.8</i>
47.5°	694.8	702.8	728.0	745.1	<i>748.6</i>
50°	647.8	655.9	678.8	695.9	<i>699.4</i>
52.5°	598.6	611.2	629.5	642.1	<i>657.0</i>
55°	551.7	557.4	576.9	600.9	<i>594.1</i>
57.5°	504.8	508.2	524.2	534.5	<i>536.8</i>
60°	453.3	457.8	470.4	476.2	<i>481.9</i>
62.5°	399.5	402.9	417.8	423.5	<i>425.8</i>
65°	348.0	351.4	359.4	365.1	<i>366.3</i>
67.5°	295.3	298.7	305.6	310.2	<i>330.8</i>
70°	247.2	249.5	253.0	262.1	<i>256.4</i>
72.5°	201.5	202.6	206.0	206.0	<i>207.2</i>
75°	158.0	159.1	160.2	159.1	<i>161.4</i>
77.5°	117.9	120.2	121.3	120.2	<i>119.0</i>
80°	84.7	87.0	85.8	83.6	<i>83.6</i>
82.5°	54.9	56.1	54.9	53.8	<i>53.8</i>
85°	28.6	30.9	29.8	28.6	<i>28.6</i>
87.5°	10.3	11.4	12.6	13.7	<i>13.7</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)