

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: P258434

Luminaire Tested: **D3X-WG-42L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258434
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-42L940-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3399.9 lumens
Efficiency: N/A
Efficacy: 109.0 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

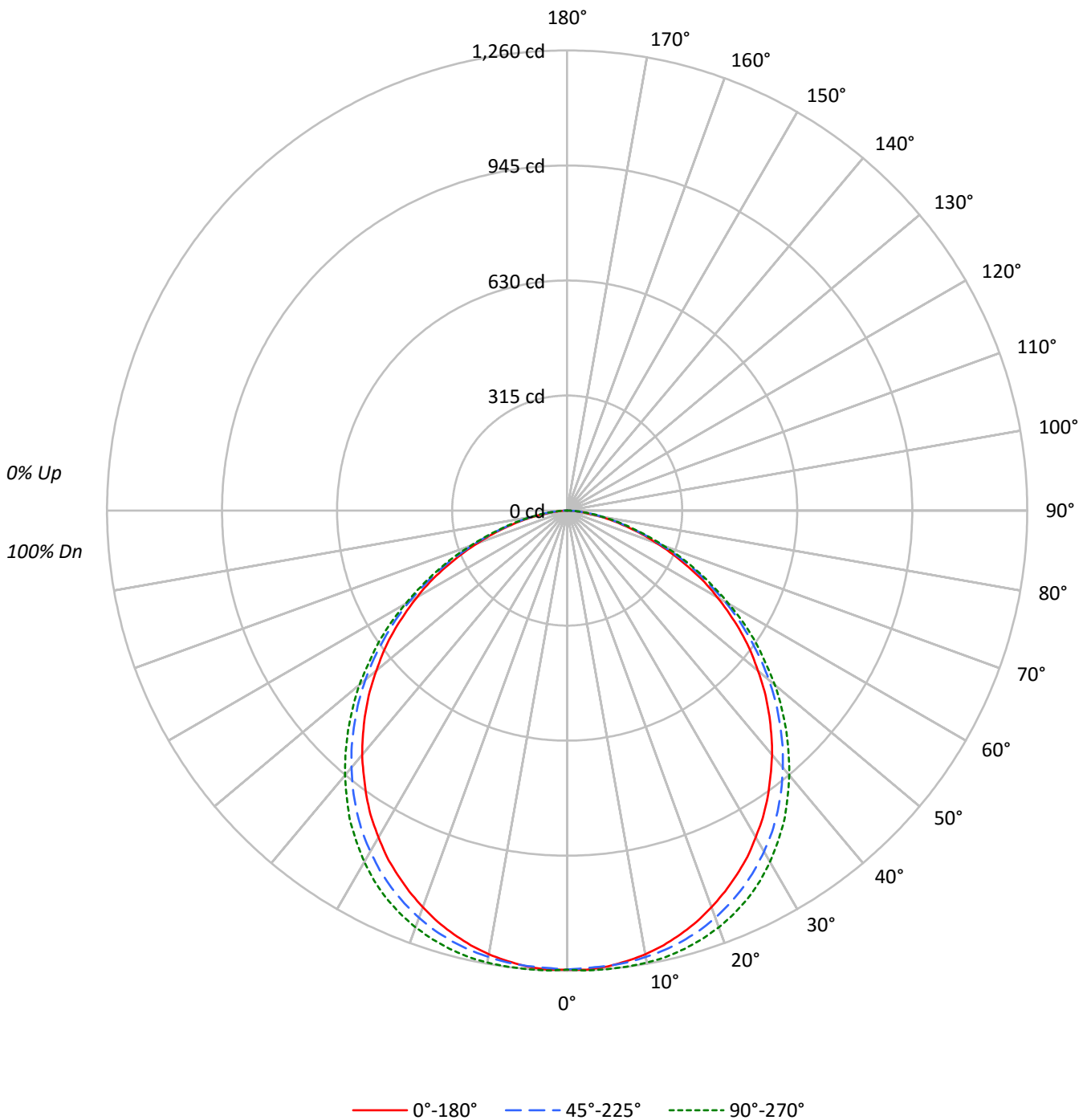
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1691	1691	1691
5°	1693	1691	1702
10°	1686	1696	1717
15°	1673	1700	1730
20°	1655	1699	1739
25°	1633	1691	1739
30°	1605	1675	1726
35°	1572	1650	1702
40°	1534	1613	1662
45°	1486	1567	1613
50°	1428	1509	1555
55°	1366	1434	1480
60°	1278	1344	1376
65°	1167	1229	1260
70°	1025	1078	1107
75°	868	912	944
80°	689	755	774
85°	469	563	545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.5
10°-20°	344.8	10.1
20°-30°	524.0	15.4
30°-40°	625.2	18.4
40°-50°	631.5	18.6
50°-60°	544.0	16.0
60°-70°	379.2	11.2
70°-80°	188.0	5.5
80°-90°	43.8	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°	988.2	29.1
0°-40°	1613.4	47.5
0°-60°	2788.9	82.0
0°-90°	3399.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3399.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1253	1252	1252	1258	1260	119
15°	1201	1207	1220	1236	1242	339
25°	1100	1114	1139	1162	1172	507
35°	957	973	1005	1028	1036	598
45°	781	798	823	843	848	602
55°	582	594	611	626	631	519
65°	367	374	386	390	396	364
75°	167	169	175	179	182	180
85°	30	36	36	34	35	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.9	1256.9	1256.9	1256.9	1256.9
2.5°	1258.1	1255.7	1253.2	1258.1	1260.5
5°	1253.2	1252.0	1252.0	1258.1	1260.5
7.5°	1244.7	1244.7	1248.4	1256.9	1259.3
10°	1233.8	1236.2	1241.1	1253.2	1256.9
12.5°	1219.1	1224.0	1232.5	1247.1	1252.0
15°	1200.9	1207.0	1220.4	1236.2	1242.3
17.5°	1180.2	1188.7	1205.7	1224.0	1230.1
20°	1155.8	1166.8	1186.3	1207.0	1214.3
22.5°	1129.0	1142.4	1164.3	1186.3	1194.8
25°	1099.8	1114.4	1138.8	1161.9	1171.6
27.5°	1069.3	1083.9	1110.7	1133.9	1143.6
30°	1032.8	1049.8	1077.9	1102.2	1110.7
32.5°	997.5	1014.5	1043.8	1065.7	1074.2
35°	957.3	973.1	1004.8	1027.9	1036.4
37.5°	914.7	932.9	963.4	984.1	991.4
40°	873.2	889.1	918.3	939.0	946.3
42.5°	827.0	844.0	873.2	891.5	897.6
45°	780.7	797.7	823.3	842.8	847.7
47.5°	733.2	749.0	774.6	790.4	795.3
50°	682.0	696.6	721.0	736.8	742.9
52.5°	633.3	646.7	667.4	680.8	684.5
55°	582.2	594.3	611.4	626.0	630.9
57.5°	527.4	540.8	556.6	568.8	572.4
60°	475.0	485.9	499.3	510.3	511.5
62.5°	423.8	428.7	440.9	450.6	451.8
65°	366.6	373.9	386.1	389.7	395.8
67.5°	314.2	319.1	328.8	333.7	338.6
70°	260.6	264.3	274.0	280.1	281.3
72.5°	214.4	215.6	222.9	227.8	229.0
75°	166.9	169.3	175.4	179.0	181.5
77.5°	126.7	129.1	134.0	136.4	136.4
80°	88.9	92.6	97.4	98.7	99.9
82.5°	57.2	62.1	65.8	67.0	64.5
85°	30.4	36.5	36.5	34.1	35.3
87.5°	11.0	13.4	14.6	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)