

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: P257540

Luminaire Tested: **D3X-WO-40L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L830-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3962.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

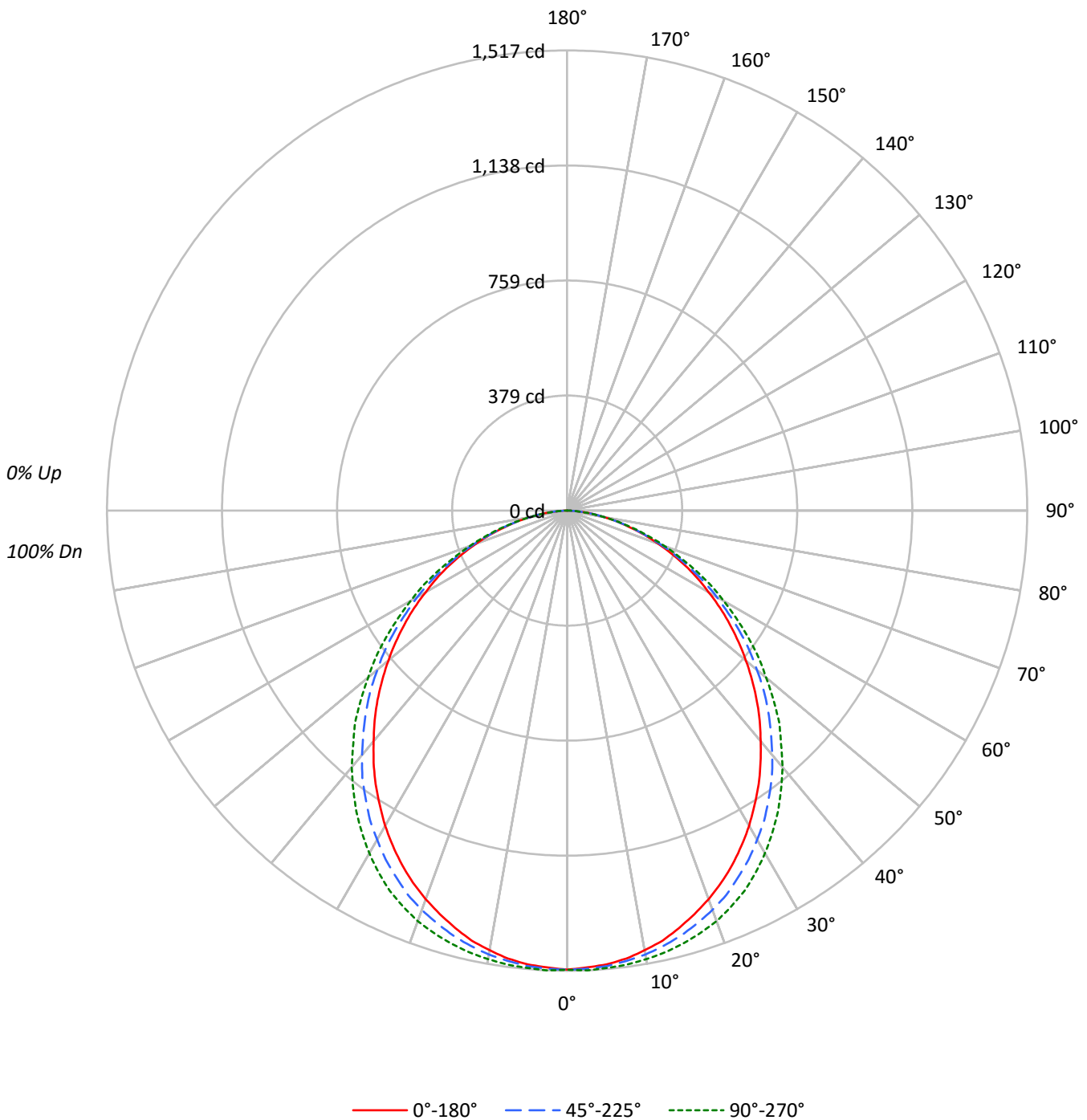
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4073	4073	4073
5°	4056	4072	4088
10°	4022	4060	4103
15°	3969	4040	4117
20°	3904	4012	4125
25°	3826	3960	4107
30°	3728	3893	4053
35°	3617	3805	3980
40°	3486	3694	3882
45°	3364	3567	3762
50°	3221	3420	3585
55°	3073	3258	3416
60°	2899	3069	3207
65°	2739	2839	2977
70°	2515	2592	2686
75°	2236	2298	2359
80°	1926	1895	1895
85°	1463	1340	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.6
10°-20°	409.2	10.3
20°-30°	614.4	15.5
30°-40°	723.1	18.2
40°-50°	721.2	18.2
50°-60°	618.9	15.6
60°-70°	443.3	11.2
70°-80°	234.7	5.9
80°-90°	54.9	1.4
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°	1166.8	29.4
0°-40°	1889.9	47.7
0°-60°	3230.0	81.5
0°-90°	3962.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1502	1502	1508	1511	1513	142
15°	1425	1430	1450	1470	1478	402
25°	1288	1300	1334	1367	1383	593
35°	1101	1115	1158	1198	1212	688
45°	884	898	937	971	988	681
55°	655	665	694	718	728	586
65°	430	432	446	464	468	425
75°	215	215	221	225	227	231
85°	47	45	43	40	40	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.4	1513.4	1513.4	1513.4	1513.4
2.5°	1507.5	1507.5	1511.4	1515.4	1517.4
5°	1501.6	1501.6	1507.5	1511.4	1513.4
7.5°	1489.7	1489.7	1497.6	1505.5	1509.5
10°	1472.0	1475.9	1485.8	1497.6	1501.6
12.5°	1452.2	1456.2	1470.0	1485.8	1491.7
15°	1424.6	1430.5	1450.3	1470.0	1477.9
17.5°	1395.0	1402.9	1426.6	1450.3	1460.1
20°	1363.4	1371.3	1400.9	1428.6	1440.4
22.5°	1327.9	1337.8	1371.3	1400.9	1412.8
25°	1288.5	1300.3	1333.8	1367.4	1383.2
27.5°	1245.1	1258.9	1296.4	1331.9	1345.7
30°	1199.7	1215.5	1253.0	1290.4	1304.3
32.5°	1150.3	1164.2	1209.5	1245.1	1258.9
35°	1101.0	1114.8	1158.2	1197.7	1211.5
37.5°	1047.7	1065.5	1108.9	1144.4	1158.2
40°	992.5	1010.3	1051.7	1093.1	1105.0
42.5°	939.2	955.0	994.5	1032.0	1043.8
45°	884.0	897.8	937.2	970.8	988.5
47.5°	826.7	840.6	880.0	911.6	921.5
50°	769.5	783.3	816.9	844.5	856.3
52.5°	712.3	726.1	757.7	783.3	795.2
55°	655.1	665.0	694.5	718.2	728.1
57.5°	597.9	605.8	629.4	655.1	661.0
60°	538.7	548.5	570.2	588.0	595.9
62.5°	485.4	489.3	509.1	524.9	534.7
65°	430.1	432.1	445.9	463.7	467.6
67.5°	372.9	374.9	388.7	398.6	402.5
70°	319.7	319.7	329.5	337.4	341.4
72.5°	268.3	266.4	272.3	280.2	284.1
75°	215.1	215.1	221.0	224.9	226.9
77.5°	169.7	165.7	169.7	173.6	173.6
80°	124.3	122.3	122.3	124.3	122.3
82.5°	84.8	82.9	84.8	80.9	78.9
85°	47.4	45.4	43.4	39.5	39.5
87.5°	15.8	13.8	13.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)