

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: P298053

Luminaire Tested: **D3X-WD-20L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-20L93050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1444.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

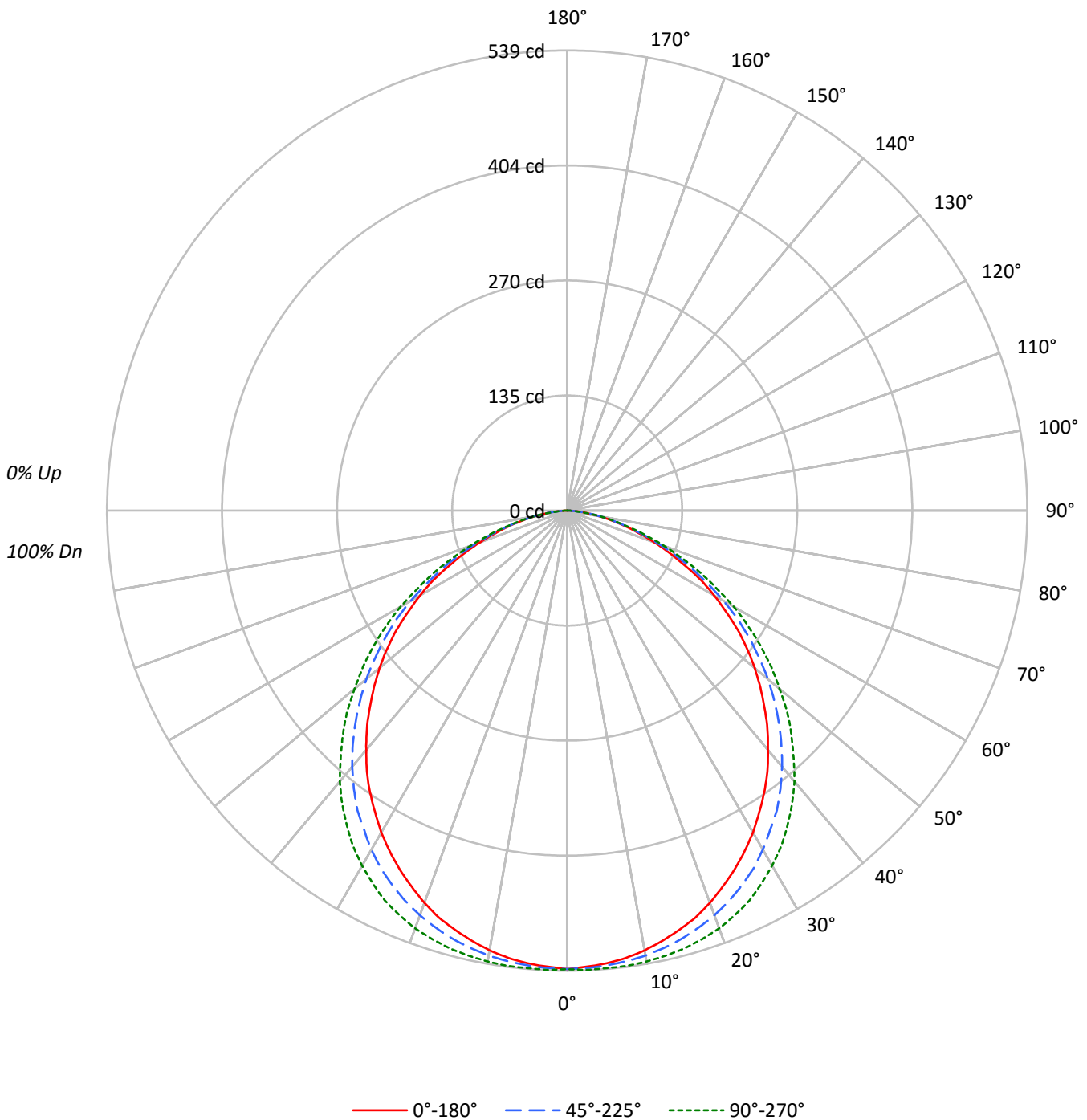
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	1445	1445	1445
5°	1438	1445	1453
10°	1429	1446	1465
15°	1416	1446	1479
20°	1400	1444	1491
25°	1378	1438	1498
30°	1353	1425	1492
35°	1323	1407	1478
40°	1286	1376	1455
45°	1245	1334	1414
50°	1201	1285	1360
55°	1145	1222	1298
60°	1071	1138	1213
65°	970	1030	1094
70°	856	899	948
75°	735	752	784
80°	590	603	614
85°	432	383	383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	3.5
10°-20°	146.6	10.2
20°-30°	223.0	15.4
30°-40°	266.8	18.5
40°-50°	269.7	18.7
50°-60°	232.1	16.1
60°-70°	160.3	11.1
70°-80°	77.7	5.4
80°-90°	16.9	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°	420.5	29.1
0°-40°	687.3	47.6
0°-60°	1189.2	82.4
0°-90°	1444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	532	533	535	537	538	51
15°	508	511	519	527	531	143
25°	464	470	484	499	504	214
35°	403	410	428	444	450	252
45°	327	333	350	365	372	252
55°	244	248	260	272	277	218
65°	152	155	162	169	172	152
75°	71	69	72	75	75	75
85°	14	14	12	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	537.1	537.1	537.1	537.1	537.1
2.5°	534.8	534.8	536.3	537.9	538.6
5°	532.4	533.2	534.8	537.1	537.9
7.5°	528.5	529.3	532.4	536.3	537.9
10°	523.1	524.6	529.3	534.0	536.3
12.5°	516.1	519.2	524.6	530.9	534.0
15°	508.3	511.4	519.2	527.0	530.9
17.5°	499.8	502.9	512.2	522.3	526.2
20°	488.9	493.6	504.4	516.1	520.8
22.5°	476.5	482.7	495.1	507.5	513.0
25°	464.0	469.5	484.2	499.0	504.4
27.5°	450.0	456.2	472.6	487.3	492.8
30°	435.3	441.5	458.6	474.9	480.3
32.5°	418.9	426.7	443.0	460.1	466.4
35°	402.6	409.6	428.3	443.8	450.0
37.5°	385.5	391.7	410.4	426.7	432.9
40°	366.1	373.1	391.7	408.1	414.3
42.5°	347.4	354.4	371.5	387.1	392.5
45°	327.2	333.4	350.5	365.3	371.5
47.5°	307.0	314.0	328.8	343.5	349.8
50°	286.8	292.2	307.0	321.0	324.9
52.5°	265.8	270.5	283.7	296.1	301.6
55°	244.1	247.9	260.4	272.0	276.7
57.5°	220.7	225.4	237.1	245.6	251.1
60°	199.0	201.3	211.4	220.0	225.4
62.5°	177.2	178.0	185.8	194.3	197.4
65°	152.3	154.7	161.7	168.7	171.8
67.5°	129.8	132.1	137.6	143.0	145.3
70°	108.8	108.8	114.3	118.1	120.5
72.5°	87.8	88.6	92.5	94.8	97.2
75°	70.7	69.2	72.3	74.6	75.4
77.5°	52.9	52.1	54.4	55.2	56.7
80°	38.1	38.1	38.9	39.6	39.6
82.5°	24.9	24.9	25.6	24.1	23.3
85°	14.0	14.0	12.4	12.4	12.4
87.5°	4.7	4.7	4.7	5.4	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)