

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: P298139

Luminaire Tested: **D3X-WG-20L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-20L83050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1976.0 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

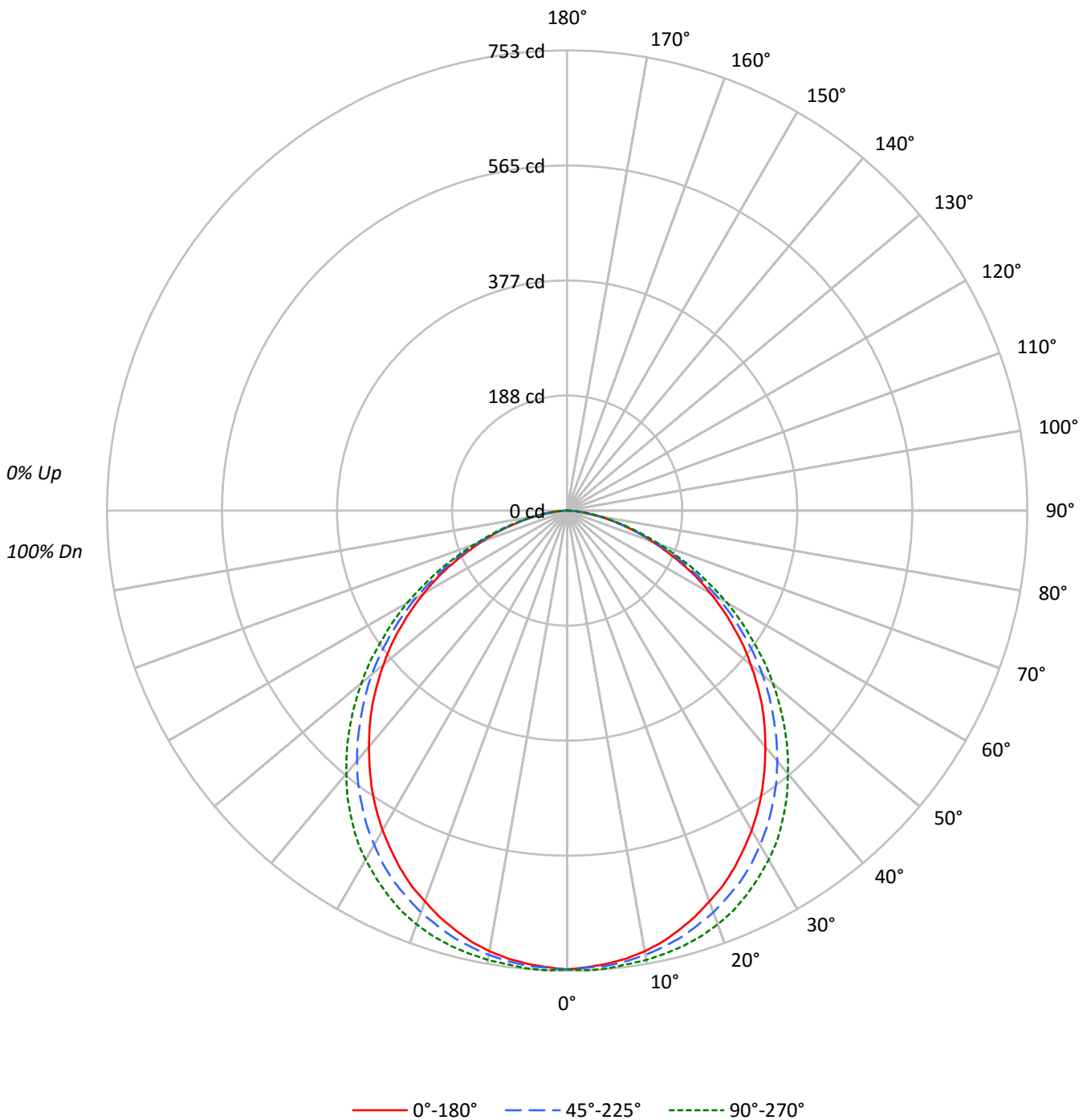
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2021	2021	2021
5°	2011	2020	2031
10°	2000	2017	2040
15°	1978	2013	2054
20°	1949	2003	2063
25°	1918	1990	2061
30°	1877	1962	2050
35°	1829	1926	2022
40°	1772	1879	1975
45°	1716	1816	1916
50°	1642	1747	1840
55°	1560	1648	1737
60°	1456	1535	1625
65°	1329	1389	1469
70°	1164	1213	1263
75°	992	1014	1057
80°	797	812	829
85°	584	550	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.1	3.6
10°-20°	204.0	10.3
20°-30°	308.4	15.6
30°-40°	366.3	18.5
40°-50°	367.8	18.6
50°-60°	314.1	15.9
60°-70°	216.4	11.0
70°-80°	104.9	5.3
80°-90°	23.0	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°	583.5	29.5
0°-40°	949.8	48.1
0°-60°	1631.7	82.6
0°-90°	1976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	745	745	748	750	752	71
15°	710	713	723	732	737	200
25°	646	651	670	688	694	297
35°	557	565	586	608	616	348
45°	451	457	477	497	503	347
55°	332	338	351	366	370	297
65°	209	209	218	228	231	207
75°	95	93	98	100	102	103
85°	19	19	18	17	17	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	750.9	750.9	750.9	750.9	750.9
2.5°	747.8	747.8	748.8	752.0	753.0
5°	744.6	744.6	747.8	749.9	752.0
7.5°	739.4	740.4	743.6	747.8	748.8
10°	732.0	733.1	738.3	743.6	746.7
12.5°	722.6	724.7	731.0	739.4	742.5
15°	710.0	713.2	722.6	732.0	737.3
17.5°	696.4	700.6	711.1	724.7	729.9
20°	680.7	685.9	699.5	714.2	720.5
22.5°	664.9	669.1	684.9	701.6	709.0
25°	646.0	651.3	670.2	688.0	694.3
27.5°	625.1	632.4	652.3	671.2	677.5
30°	604.1	610.4	631.4	652.3	659.7
32.5°	581.0	587.3	610.4	631.4	639.8
35°	556.9	565.3	586.3	608.3	615.6
37.5°	530.7	540.1	562.1	581.0	590.5
40°	504.5	512.9	534.9	554.8	562.1
42.5°	478.2	485.6	506.6	527.5	533.8
45°	451.0	457.3	477.2	497.1	503.4
47.5°	421.6	429.0	447.8	464.6	472.0
50°	392.2	399.6	417.4	433.1	439.4
52.5°	363.9	368.1	384.9	399.6	406.9
55°	332.5	337.7	351.3	366.0	370.2
57.5°	302.0	305.2	318.8	331.4	337.7
60°	270.6	272.7	285.3	294.7	302.0
62.5°	241.2	241.2	250.7	261.1	265.3
65°	208.7	208.7	218.1	227.6	230.7
67.5°	177.2	179.3	185.6	193.0	195.1
70°	147.9	147.9	154.2	159.4	160.5
72.5°	121.7	120.6	123.8	128.0	130.0
75°	95.4	93.3	97.5	99.6	101.7
77.5°	72.4	71.3	73.4	75.5	75.5
80°	51.4	50.3	52.4	52.4	53.5
82.5°	33.6	34.6	34.6	33.6	32.5
85°	18.9	18.9	17.8	16.8	16.8
87.5°	6.3	6.3	6.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)