

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: P298393

Luminaire Tested: **D3X-WO-20L93050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-20L93050-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1874.0 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

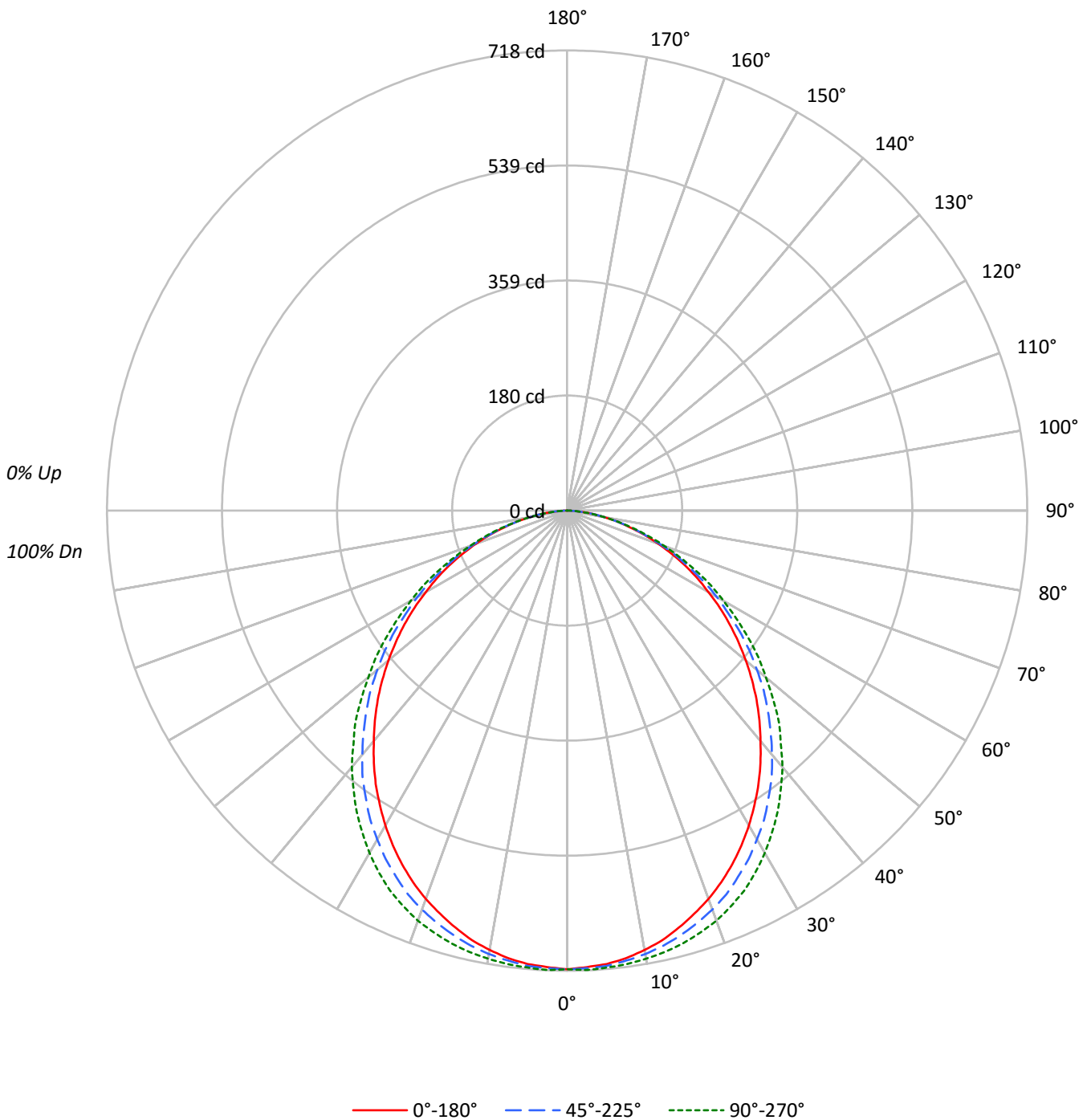
Input Watts (W): 16.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	1926	1926	1926
5°	1918	1926	1933
10°	1902	1920	1940
15°	1877	1911	1947
20°	1847	1897	1950
25°	1809	1873	1942
30°	1763	1841	1917
35°	1711	1799	1882
40°	1649	1747	1835
45°	1591	1687	1779
50°	1523	1617	1696
55°	1453	1541	1615
60°	1371	1452	1517
65°	1295	1343	1408
70°	1190	1226	1270
75°	1057	1087	1116
80°	911	897	897
85°	692	633	577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.6
10°-20°	193.5	10.3
20°-30°	290.5	15.5
30°-40°	341.9	18.2
40°-50°	341.1	18.2
50°-60°	292.7	15.6
60°-70°	209.6	11.2
70°-80°	111.0	5.9
80°-90°	26.0	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°	551.7	29.4
0°-40°	893.7	47.7
0°-60°	1527.4	81.5
0°-90°	1874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	710	710	713	715	716	67
15°	674	676	686	695	699	190
25°	609	615	631	647	654	280
35°	521	527	548	566	573	325
45°	418	424	443	459	468	322
55°	310	314	328	340	344	277
65°	203	204	211	219	221	201
75°	102	102	104	106	107	109
85°	22	22	20	19	19	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.7	715.7	715.7	715.7	715.7
2.5°	712.9	712.9	714.7	716.6	717.5
5°	710.1	710.1	712.9	714.7	715.7
7.5°	704.5	704.5	708.2	711.9	713.8
10°	696.1	697.9	702.6	708.2	710.1
12.5°	686.7	688.6	695.1	702.6	705.4
15°	673.7	676.5	685.8	695.1	698.9
17.5°	659.7	663.4	674.6	685.8	690.5
20°	644.8	648.5	662.5	675.5	681.1
22.5°	628.0	632.6	648.5	662.5	668.1
25°	609.3	614.9	630.8	646.6	654.1
27.5°	588.8	595.3	613.0	629.8	636.4
30°	567.3	574.8	592.5	610.2	616.8
32.5°	544.0	550.5	572.0	588.8	595.3
35°	520.7	527.2	547.7	566.4	572.9
37.5°	495.5	503.9	524.4	541.2	547.7
40°	469.3	477.7	497.3	516.9	522.5
42.5°	444.1	451.6	470.3	488.0	493.6
45°	418.0	424.5	443.2	459.1	467.5
47.5°	391.0	397.5	416.1	431.1	435.7
50°	363.9	370.4	386.3	399.4	405.0
52.5°	336.8	343.4	358.3	370.4	376.0
55°	309.8	314.4	328.4	339.6	344.3
57.5°	282.7	286.5	297.6	309.8	312.6
60°	254.7	259.4	269.7	278.1	281.8
62.5°	229.5	231.4	240.7	248.2	252.9
65°	203.4	204.3	210.9	219.3	221.1
67.5°	176.3	177.3	183.8	188.5	190.3
70°	151.2	151.2	155.8	159.6	161.4
72.5°	126.9	126.0	128.8	132.5	134.4
75°	101.7	101.7	104.5	106.4	107.3
77.5°	80.2	78.4	80.2	82.1	82.1
80°	58.8	57.9	57.9	58.8	57.9
82.5°	40.1	39.2	40.1	38.3	37.3
85°	22.4	21.5	20.5	18.7	18.7
87.5°	7.5	6.5	6.5	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)