

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: P296756

Luminaire Tested: **D3X-WD-80L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-80L83050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7947.0 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

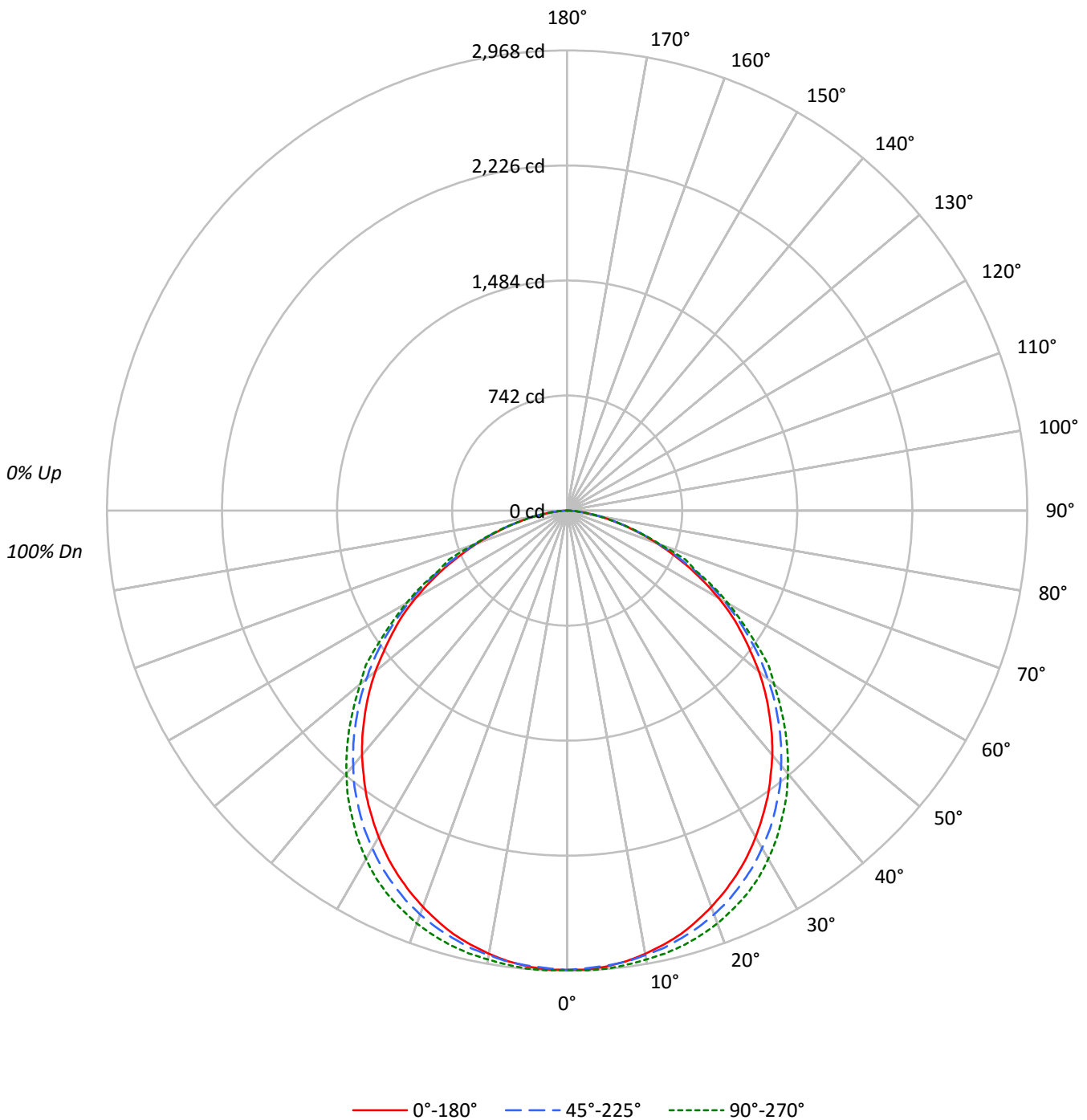
Input Watts (W): 62.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	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	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	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	30	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°	3986	3986	3986
5°	3986	3978	4005
10°	3966	3978	4016
15°	3940	3976	4043
20°	3895	3968	4058
25°	3844	3945	4060
30°	3779	3907	4031
35°	3705	3850	3972
40°	3616	3771	3891
45°	3505	3668	3782
50°	3378	3539	3647
55°	3224	3371	3472
60°	3038	3154	3230
65°	2760	2850	2905
70°	2423	2479	2513
75°	2046	2075	2090
80°	1635	1657	1613
85°	1101	1144	1101



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.8	3.5
10°-20°	807.4	10.2
20°-30°	1225.0	15.4
30°-40°	1462.6	18.4
40°-50°	1480.7	18.6
50°-60°	1279.9	16.1
60°-70°	887.1	11.2
70°-80°	429.2	5.4
80°-90°	94.4	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°	2313.2	29.1
0°-40°	3775.8	47.5
0°-60°	6536.4	82.2
0°-90°	7947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7947.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2951	2948	2946	2960	2965	280
15°	2829	2834	2854	2888	2903	797
25°	2589	2606	2658	2712	2734	1192
35°	2255	2275	2344	2404	2418	1409
45°	1842	1868	1928	1976	1987	1421
55°	1374	1389	1437	1497	1480	1228
65°	867	875	895	910	912	858
75°	394	396	399	396	402	422
85°	71	77	74	71	71	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2962.6	2962.6	2962.6	2962.6	2962.6
2.5°	2962.6	2959.7	2954.0	2962.6	2968.3
5°	2951.2	2948.3	2945.5	2959.7	2965.4
7.5°	2931.2	2931.2	2934.1	2948.3	2954.0
10°	2902.7	2905.6	2911.3	2934.1	2939.8
12.5°	2868.5	2874.2	2888.4	2914.1	2925.5
15°	2828.6	2834.3	2854.2	2888.4	2902.7
17.5°	2777.2	2788.7	2817.2	2857.1	2871.3
20°	2720.2	2734.5	2771.5	2817.2	2834.3
22.5°	2657.5	2671.7	2720.2	2768.7	2785.8
25°	2589.1	2606.2	2657.5	2711.7	2734.5
27.5°	2514.9	2534.9	2591.9	2648.9	2671.7
30°	2432.2	2455.0	2514.9	2574.8	2594.8
32.5°	2343.8	2366.6	2435.1	2492.1	2512.1
35°	2255.4	2275.4	2343.8	2403.7	2418.0
37.5°	2155.6	2178.5	2252.6	2303.9	2323.9
40°	2058.7	2081.5	2147.1	2198.4	2215.5
42.5°	1953.2	1976.0	2041.6	2090.1	2104.3
45°	1842.0	1867.7	1927.5	1976.0	1987.4
47.5°	1730.8	1750.7	1813.5	1856.2	1864.8
50°	1613.9	1633.8	1690.9	1733.6	1742.2
52.5°	1491.3	1522.6	1568.3	1599.6	1636.7
55°	1374.4	1388.6	1437.1	1497.0	1479.9
57.5°	1257.5	1266.0	1305.9	1331.6	1337.3
60°	1129.1	1140.6	1171.9	1186.2	1200.4
62.5°	995.1	1003.7	1040.8	1055.0	1060.7
65°	866.8	875.4	895.3	909.6	912.4
67.5°	735.7	744.2	761.3	772.7	824.0
70°	615.9	621.6	630.2	653.0	638.7
72.5°	501.8	504.7	513.2	513.2	516.1
75°	393.5	396.3	399.2	396.3	402.0
77.5°	293.7	299.4	302.2	299.4	296.5
80°	211.0	216.7	213.9	208.2	208.2
82.5°	136.9	139.7	136.9	134.0	134.0
85°	71.3	77.0	74.1	71.3	71.3
87.5°	25.7	28.5	31.4	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)