

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: P297318

Luminaire Tested: **D3X-WO-80L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-80L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8547.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

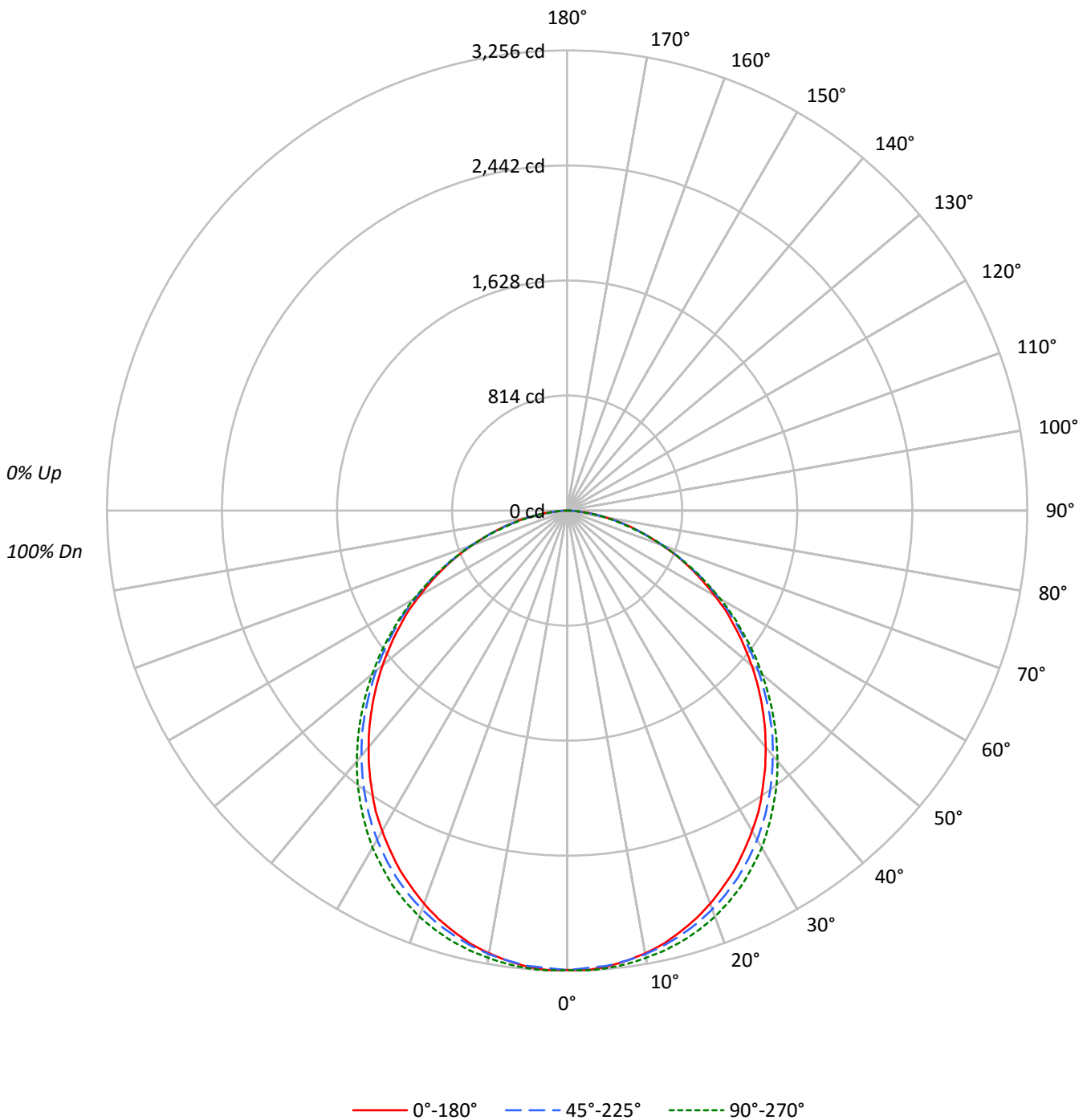
Input Watts (W): 63.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	4374	4374	4374
5°	4375	4367	4390
10°	4347	4354	4390
15°	4299	4331	4392
20°	4238	4300	4378
25°	4163	4249	4343
30°	4066	4178	4281
35°	3958	4086	4181
40°	3838	3975	4066
45°	3709	3846	3928
50°	3568	3700	3767
55°	3418	3525	3580
60°	3246	3331	3370
65°	3061	3107	3126
70°	2809	2843	2809
75°	2530	2515	2440
80°	2142	2119	2053
85°	1601	1556	1379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.8	3.6
10°-20°	879.2	10.3
20°-30°	1318.2	15.4
30°-40°	1552.4	18.2
40°-50°	1552.6	18.2
50°-60°	1339.6	15.7
60°-70°	964.0	11.3
70°-80°	511.3	6.0
80°-90°	122.0	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°	2505.1	29.3
0°-40°	4057.5	47.5
0°-60°	6949.8	81.3
0°-90°	8547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8547.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3251	3251	3251	3251	3251	
5°	3239	3236	3233	3245	3251	307
15°	3086	3095	3110	3141	3153	870
25°	2804	2822	2862	2911	2925	1290
35°	2410	2439	2488	2531	2545	1508
45°	1949	1975	2021	2056	2064	1504
55°	1457	1471	1503	1529	1526	1304
65°	962	964	976	982	982	951
75°	487	481	484	472	469	518
85°	104	104	101	92	89	125
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3250.6	3250.6	3250.6	3250.6	3250.6
2.5°	3253.5	3247.7	3239.1	3250.6	3256.3
5°	3239.1	3236.2	3233.3	3244.8	3250.6
7.5°	3213.2	3216.0	3213.2	3230.4	3236.2
10°	3181.5	3184.4	3187.2	3207.4	3213.2
12.5°	3141.2	3144.1	3152.7	3178.6	3187.2
15°	3086.5	3095.1	3109.5	3141.2	3152.7
17.5°	3028.9	3040.4	3060.6	3098.0	3109.5
20°	2959.8	2974.2	3003.0	3043.3	3057.7
22.5°	2882.0	2896.4	2936.8	2979.9	2994.3
25°	2804.3	2821.6	2861.9	2910.8	2925.2
27.5°	2712.2	2735.2	2778.4	2827.3	2838.9
30°	2617.2	2637.3	2689.1	2735.2	2755.4
32.5°	2522.2	2542.3	2591.3	2637.3	2651.7
35°	2409.9	2438.7	2487.6	2530.8	2545.2
37.5°	2300.5	2326.4	2378.2	2421.4	2435.8
40°	2185.3	2208.3	2263.0	2303.3	2314.9
42.5°	2070.1	2093.2	2147.9	2179.5	2191.0
45°	1949.2	1975.1	2021.2	2055.7	2064.4
47.5°	1828.3	1848.4	1891.6	1923.3	1934.8
50°	1704.5	1724.6	1767.8	1793.7	1799.5
52.5°	1580.7	1595.1	1635.4	1658.4	1667.0
55°	1456.9	1471.3	1502.9	1528.8	1526.0
57.5°	1338.8	1344.6	1376.2	1393.5	1393.5
60°	1206.4	1212.1	1238.0	1249.6	1252.4
62.5°	1082.6	1091.2	1111.4	1114.2	1114.2
65°	961.6	964.5	976.0	981.8	981.8
67.5°	840.7	837.8	849.4	849.4	846.5
70°	714.0	719.8	722.7	716.9	714.0
72.5°	598.9	596.0	596.0	593.1	593.1
75°	486.6	480.8	483.7	472.2	469.3
77.5°	382.9	374.3	371.4	365.7	359.9
80°	276.4	276.4	273.5	267.8	264.9
82.5°	184.3	184.3	181.4	175.6	169.9
85°	103.7	103.7	100.8	92.1	89.3
87.5°	34.6	34.6	34.6	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)