

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: P297034

Luminaire Tested: **D3X-WG-80L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297034  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-80L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7165.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

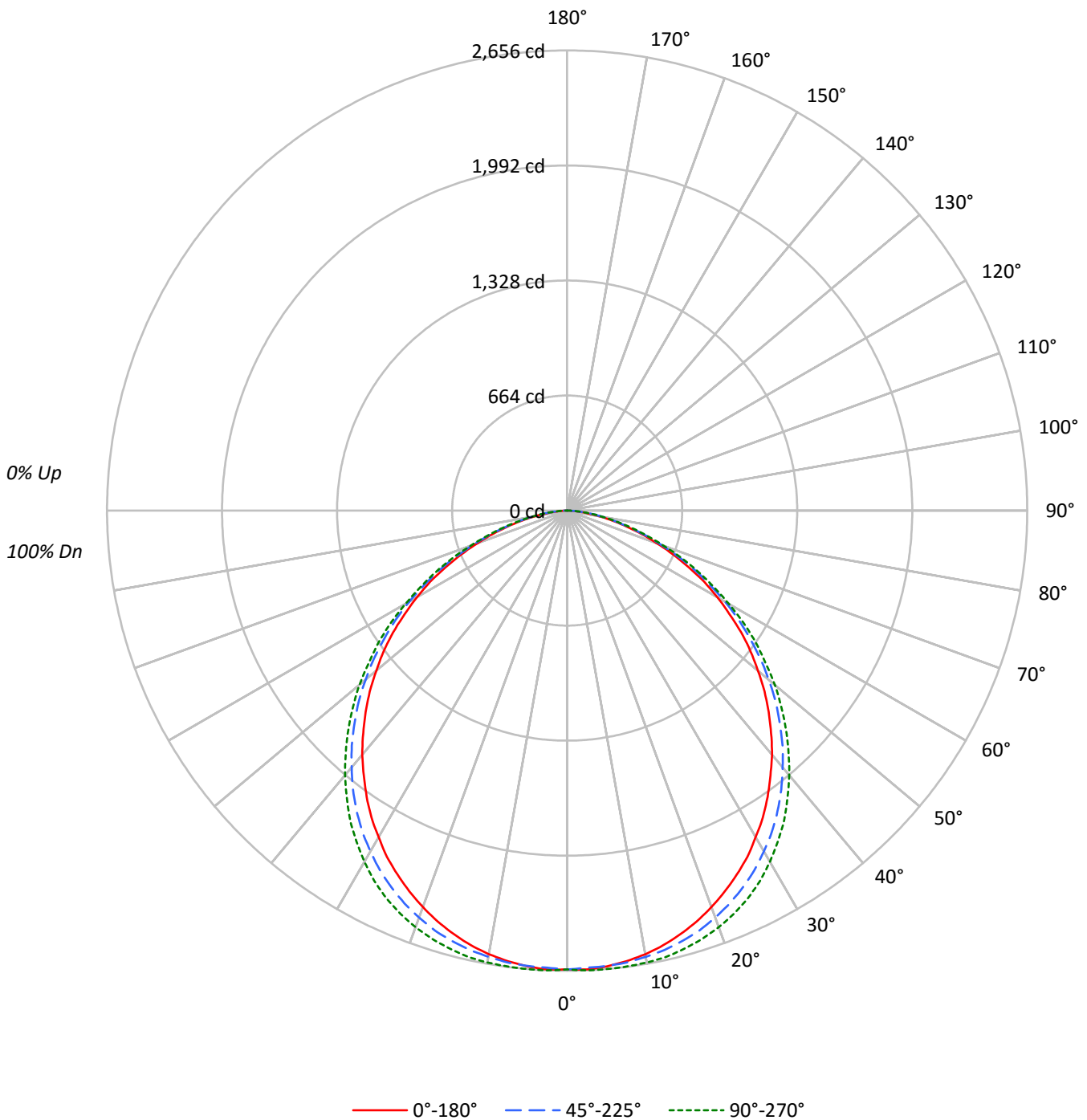
Input Watts (W): 60.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
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		47	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	27		38	32	27		37	31	27	26

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

	0°	45°	90°
0°	3564	3564	3564
5°	3567	3564	3588
10°	3552	3573	3619
15°	3525	3582	3647
20°	3488	3579	3664
25°	3441	3563	3666
30°	3381	3529	3637
35°	3314	3478	3588
40°	3232	3399	3503
45°	3131	3301	3399
50°	3009	3180	3277
55°	2878	3022	3119
60°	2694	2832	2901
65°	2460	2590	2656
70°	2161	2272	2332
75°	1828	1921	1988
80°	1452	1591	1631
85°	991	1189	1149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.7	3.5
10°-20°	726.6	10.1
20°-30°	1104.2	15.4
30°-40°	1317.6	18.4
40°-50°	1330.7	18.6
50°-60°	1146.5	16.0
60°-70°	799.2	11.2
70°-80°	396.1	5.5
80°-90°	92.4	1.3
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°	2082.5	29.1
0°-40°	3400.1	47.5
0°-60°	5877.3	82.0
0°-90°	7165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7165.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2649	2649	2649	2649	2649	
5°	2641	2638	2638	2651	2656	251
15°	2531	2544	2572	2605	2618	714
25°	2318	2348	2400	2449	2469	1068
35°	2017	2051	2118	2166	2184	1261
45°	1645	1681	1735	1776	1786	1268
55°	1227	1252	1288	1319	1330	1093
65°	773	788	814	821	834	767
75°	352	357	370	377	382	379
85°	64	77	77	72	74	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2648.7	2648.7	2648.7	2648.7	2648.7
2.5°	2651.3	2646.2	2641.0	2651.3	2656.4
5°	2641.0	2638.5	2638.5	2651.3	2656.4
7.5°	2623.1	2623.1	2630.8	2648.7	2653.9
10°	2600.0	2605.1	2615.4	2641.0	2648.7
12.5°	2569.2	2579.5	2597.4	2628.2	2638.5
15°	2530.7	2543.5	2571.8	2605.1	2617.9
17.5°	2487.1	2505.0	2541.0	2579.5	2592.3
20°	2435.7	2458.8	2499.9	2543.5	2558.9
22.5°	2379.3	2407.5	2453.7	2499.9	2517.9
25°	2317.7	2348.5	2399.8	2448.6	2469.1
27.5°	2253.5	2284.3	2340.8	2389.5	2410.1
30°	2176.5	2212.4	2271.5	2322.8	2340.8
32.5°	2102.1	2138.0	2199.6	2245.8	2263.8
35°	2017.4	2050.7	2117.5	2166.2	2184.2
37.5°	1927.5	1966.0	2030.2	2073.8	2089.2
40°	1840.3	1873.6	1935.2	1978.9	1994.3
42.5°	1742.7	1778.7	1840.3	1878.8	1891.6
45°	1645.2	1681.1	1735.0	1776.1	1786.4
47.5°	1545.1	1578.5	1632.4	1665.7	1676.0
50°	1437.3	1468.1	1519.4	1552.8	1565.6
52.5°	1334.6	1362.9	1406.5	1434.7	1442.4
55°	1226.8	1252.5	1288.4	1319.2	1329.5
57.5°	1111.3	1139.6	1172.9	1198.6	1206.3
60°	1001.0	1024.1	1052.3	1075.4	1078.0
62.5°	893.2	903.4	929.1	949.6	952.2
65°	772.6	788.0	813.6	821.3	834.2
67.5°	662.2	672.5	693.0	703.3	713.5
70°	549.3	557.0	577.5	590.3	592.9
72.5°	451.7	454.3	469.7	480.0	482.5
75°	351.6	356.8	369.6	377.3	382.4
77.5°	266.9	272.1	282.3	287.5	287.5
80°	187.4	195.1	205.3	207.9	210.5
82.5°	120.6	130.9	138.6	141.2	136.0
85°	64.2	77.0	77.0	71.9	74.4
87.5°	23.1	28.2	30.8	33.4	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)