

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: P296742

Luminaire Tested: **D3X-WD-60L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296742  
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-60L83050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5994.0 lumens  
Efficiency: N/A  
Efficacy: 132.0 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

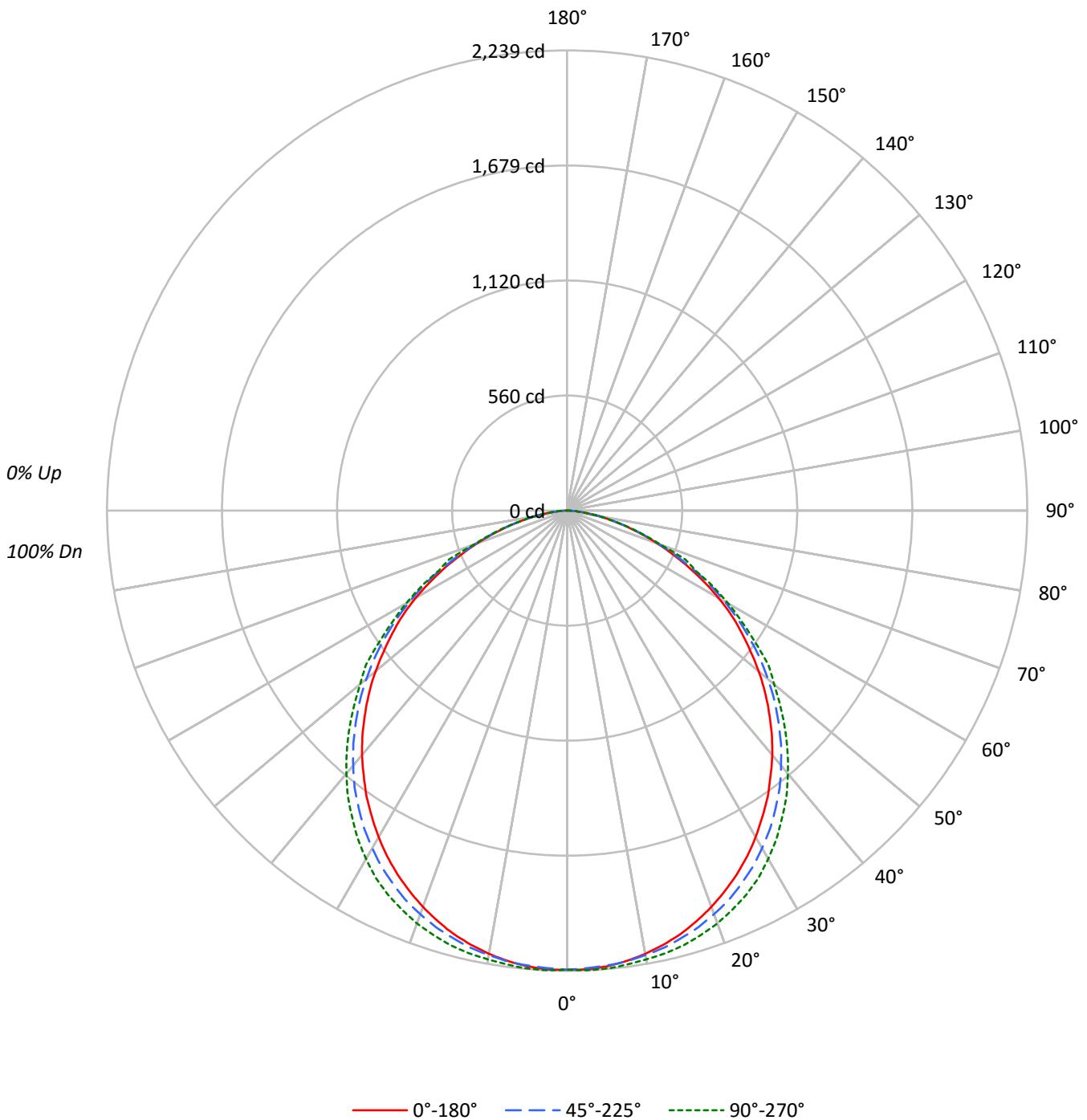
Input Watts (W): 45.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3006	3006	3006
5°	3006	3001	3021
10°	2991	3000	3029
15°	2972	2999	3050
20°	2938	2993	3061
25°	2899	2976	3062
30°	2850	2947	3041
35°	2794	2904	2995
40°	2727	2844	2935
45°	2644	2766	2852
50°	2548	2669	2750
55°	2432	2543	2618
60°	2292	2379	2436
65°	2082	2150	2191
70°	1827	1870	1895
75°	1543	1565	1576
80°	1233	1250	1216
85°	831	863	831



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	3.5
10°-20°	609.0	10.2
20°-30°	924.0	15.4
30°-40°	1103.1	18.4
40°-50°	1116.8	18.6
50°-60°	965.4	16.1
60°-70°	669.1	11.2
70°-80°	323.7	5.4
80°-90°	71.2	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°	1744.7	29.1
0°-40°	2847.9	47.5
0°-60°	4930.0	82.2
0°-90°	5994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2226	2224	2222	2232	2237	211
15°	2133	2138	2153	2179	2189	601
25°	1953	1966	2004	2045	2062	899
35°	1701	1716	1768	1813	1824	1063
45°	1389	1409	1454	1490	1499	1072
55°	1037	1047	1084	1129	1116	926
65°	654	660	675	686	688	647
75°	297	299	301	299	303	318
85°	54	58	56	54	54	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2234.5	2234.5	2234.5	2234.5	2234.5
2.5°	2234.5	2232.4	2228.1	2234.5	2238.8
5°	2225.9	2223.8	2221.6	2232.4	2236.7
7.5°	2210.9	2210.9	2213.0	2223.8	2228.1
10°	2189.4	2191.5	2195.8	2213.0	2217.3
12.5°	2163.5	2167.9	2178.6	2198.0	2206.6
15°	2133.4	2137.7	2152.8	2178.6	2189.4
17.5°	2094.7	2103.3	2124.8	2154.9	2165.7
20°	2051.7	2062.5	2090.4	2124.8	2137.7
22.5°	2004.4	2015.2	2051.7	2088.3	2101.2
25°	1952.8	1965.7	2004.4	2045.3	2062.5
27.5°	1896.9	1911.9	1954.9	1997.9	2015.2
30°	1834.5	1851.7	1896.9	1942.0	1957.1
32.5°	1767.8	1785.0	1836.7	1879.7	1894.7
35°	1701.2	1716.2	1767.8	1813.0	1823.7
37.5°	1625.9	1643.1	1699.0	1737.7	1752.8
40°	1552.8	1570.0	1619.4	1658.1	1671.1
42.5°	1473.2	1490.4	1539.9	1576.4	1587.2
45°	1389.3	1408.7	1453.8	1490.4	1499.0
47.5°	1305.4	1320.5	1367.8	1400.1	1406.5
50°	1217.3	1232.3	1275.3	1307.6	1314.0
52.5°	1124.8	1148.4	1182.9	1206.5	1234.5
55°	1036.6	1047.4	1083.9	1129.1	1116.2
57.5°	948.4	954.9	985.0	1004.4	1008.7
60°	851.7	860.3	883.9	894.7	905.4
62.5°	750.6	757.0	785.0	795.7	800.0
65°	653.8	660.2	675.3	686.1	688.2
67.5°	554.9	561.3	574.2	582.8	621.5
70°	464.5	468.8	475.3	492.5	481.7
72.5°	378.5	380.7	387.1	387.1	389.3
75°	296.8	298.9	301.1	298.9	303.2
77.5°	221.5	225.8	228.0	225.8	223.7
80°	159.1	163.4	161.3	157.0	157.0
82.5°	103.2	105.4	103.2	101.1	101.1
85°	53.8	58.1	55.9	53.8	53.8
87.5°	19.4	21.5	23.7	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)