

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: P296748

Luminaire Tested: **D3X-WD-67L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296748  
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-67L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6664.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

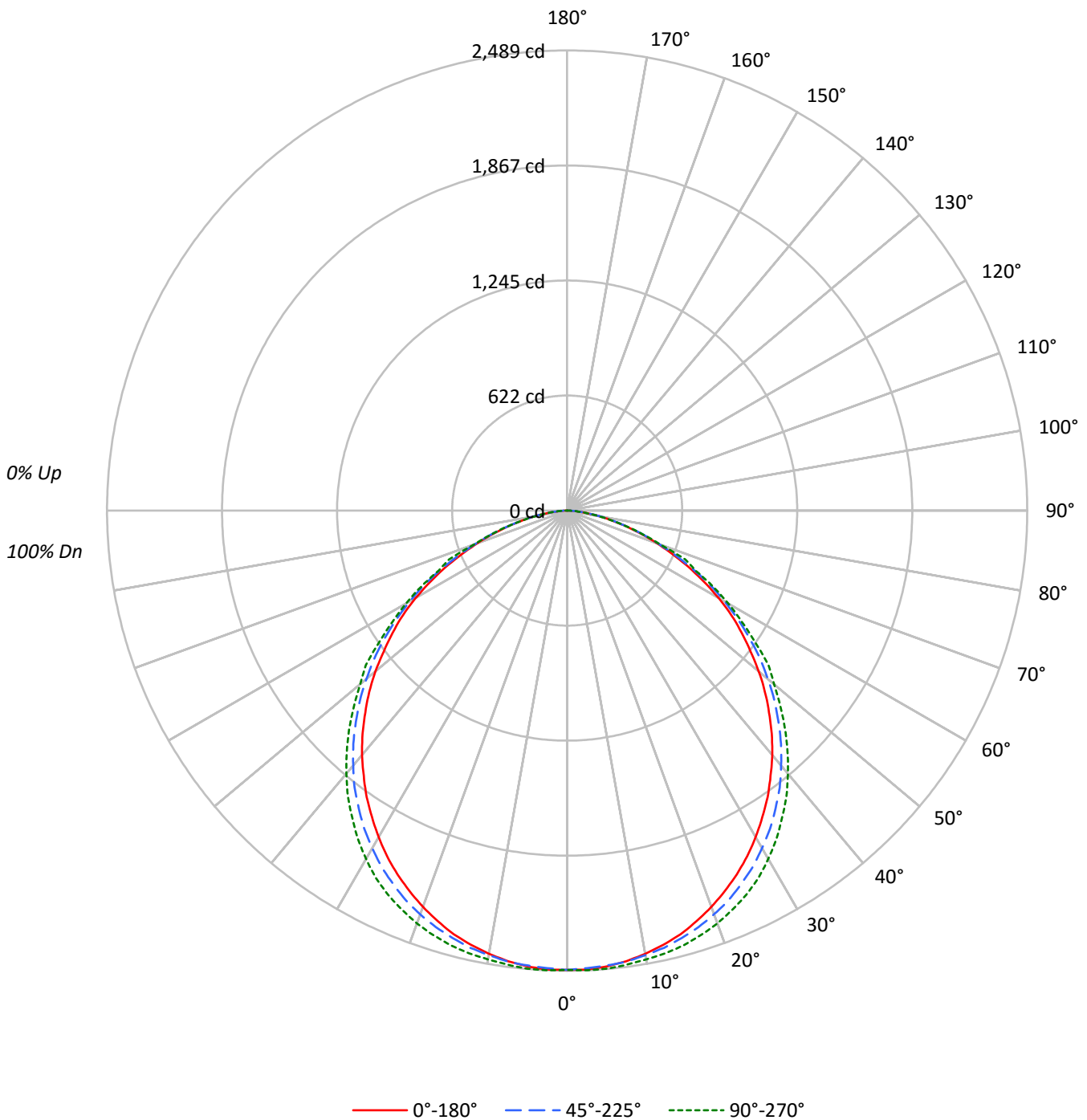
Input Watts (W): 51.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3343	3343	3343
5°	3342	3336	3359
10°	3326	3335	3368
15°	3304	3334	3391
20°	3266	3328	3403
25°	3223	3308	3404
30°	3169	3276	3380
35°	3107	3228	3330
40°	3032	3162	3263
45°	2939	3076	3171
50°	2833	2968	3058
55°	2704	2827	2911
60°	2548	2644	2709
65°	2314	2390	2436
70°	2032	2079	2107
75°	1716	1740	1752
80°	1371	1389	1352
85°	923	960	923



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.4	3.5
10°-20°	677.1	10.2
20°-30°	1027.3	15.4
30°-40°	1226.4	18.4
40°-50°	1241.6	18.6
50°-60°	1073.3	16.1
60°-70°	743.9	11.2
70°-80°	359.9	5.4
80°-90°	79.1	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°	1939.8	29.1
0°-40°	3166.2	47.5
0°-60°	5481.1	82.2
0°-90°	6664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6664.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2484	2484	2484	2484	2484	
5°	2475	2472	2470	2482	2487	235
15°	2372	2377	2393	2422	2434	668
25°	2171	2185	2228	2274	2293	1000
35°	1891	1908	1965	2016	2028	1181
45°	1545	1566	1616	1657	1667	1191
55°	1152	1164	1205	1255	1241	1030
65°	727	734	751	763	765	719
75°	330	332	335	332	337	354
85°	60	65	62	60	60	77
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2484.3	2484.3	2484.3	2484.3	2484.3
2.5°	2484.3	2481.9	2477.1	2484.3	2489.1
5°	2474.7	2472.3	2469.9	2481.9	2486.7
7.5°	2458.0	2458.0	2460.4	2472.3	2477.1
10°	2434.1	2436.5	2441.3	2460.4	2465.2
12.5°	2405.4	2410.2	2422.1	2443.6	2453.2
15°	2371.9	2376.7	2393.4	2422.1	2434.1
17.5°	2328.9	2338.4	2362.3	2395.8	2407.8
20°	2281.1	2293.0	2324.1	2362.3	2376.7
22.5°	2228.5	2240.4	2281.1	2321.7	2336.0
25°	2171.1	2185.4	2228.5	2273.9	2293.0
27.5°	2108.9	2125.6	2173.5	2221.3	2240.4
30°	2039.6	2058.7	2108.9	2159.1	2175.8
32.5°	1965.4	1984.6	2041.9	2089.8	2106.5
35°	1891.3	1908.1	1965.4	2015.6	2027.6
37.5°	1807.6	1826.8	1888.9	1932.0	1948.7
40°	1726.3	1745.5	1800.5	1843.5	1857.8
42.5°	1637.9	1657.0	1712.0	1752.6	1764.6
45°	1544.6	1566.1	1616.3	1657.0	1666.6
47.5°	1451.4	1468.1	1520.7	1556.6	1563.7
50°	1353.3	1370.1	1417.9	1453.8	1460.9
52.5°	1250.5	1276.8	1315.1	1341.4	1372.5
55°	1152.5	1164.4	1205.1	1255.3	1241.0
57.5°	1054.4	1061.6	1095.1	1116.6	1121.4
60°	946.9	956.4	982.7	994.7	1006.6
62.5°	834.5	841.6	872.7	884.7	889.5
65°	726.9	734.0	750.8	762.7	765.1
67.5°	616.9	624.1	638.4	648.0	691.0
70°	516.5	521.2	528.4	547.5	535.6
72.5°	420.8	423.2	430.4	430.4	432.8
75°	330.0	332.4	334.7	332.4	337.1
77.5°	246.3	251.1	253.5	251.1	248.7
80°	176.9	181.7	179.3	174.5	174.5
82.5°	114.8	117.2	114.8	112.4	112.4
85°	59.8	64.6	62.2	59.8	59.8
87.5°	21.5	23.9	26.3	28.7	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)