

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: P296734

Luminaire Tested: **D3X-WD-55L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296734  
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-55L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4922.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

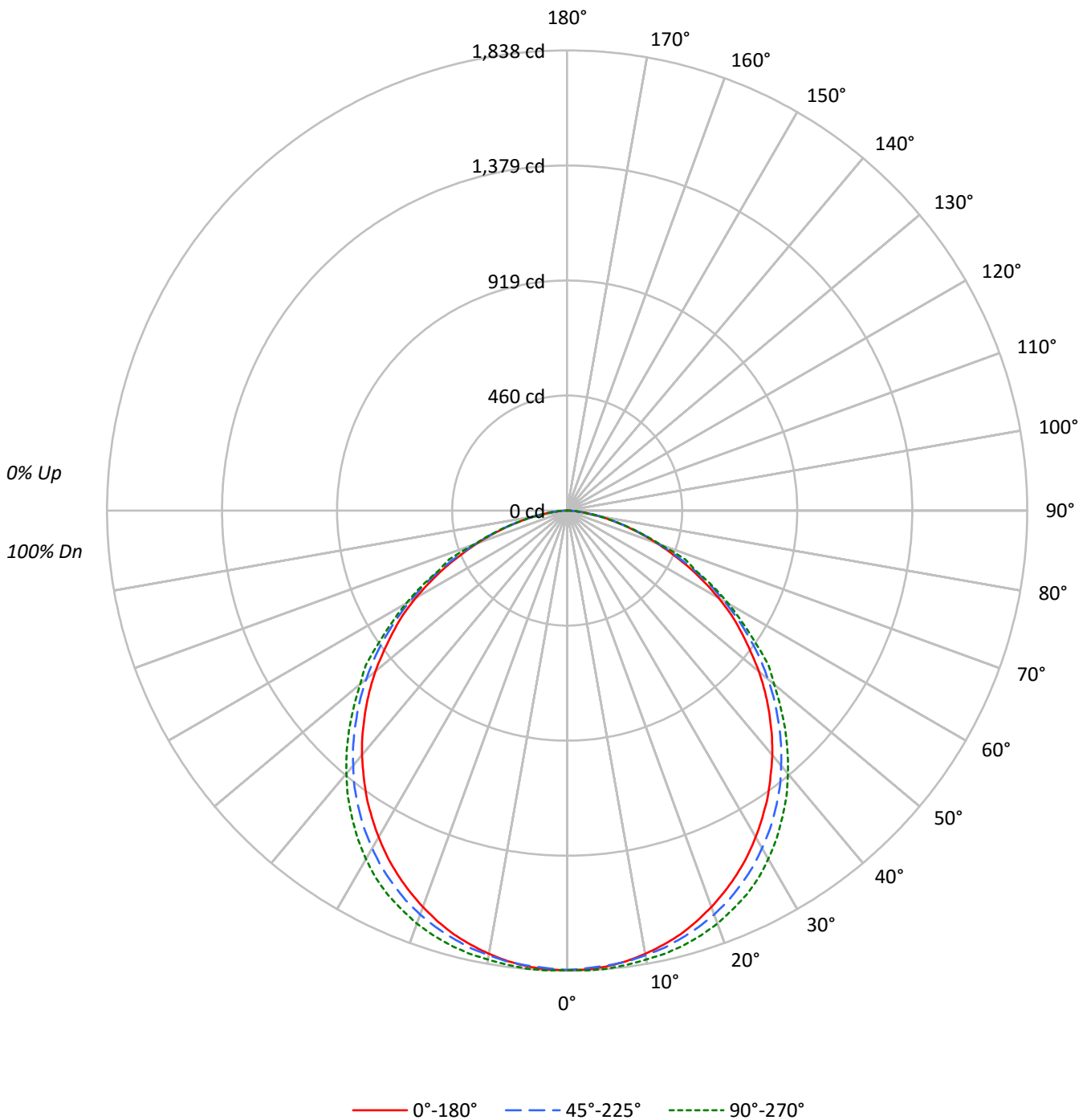
Input Watts (W): 38.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2469	2469	2469
5°	2469	2464	2481
10°	2456	2463	2488
15°	2440	2462	2504
20°	2412	2458	2513
25°	2381	2443	2514
30°	2340	2420	2497
35°	2294	2384	2460
40°	2240	2336	2410
45°	2171	2272	2342
50°	2092	2192	2259
55°	1997	2088	2150
60°	1882	1953	2001
65°	1709	1765	1799
70°	1501	1535	1556
75°	1267	1285	1294
80°	1013	1027	999
85°	682	709	682



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.9	3.5
10°-20°	500.1	10.2
20°-30°	758.7	15.4
30°-40°	905.8	18.4
40°-50°	917.1	18.6
50°-60°	792.7	16.1
60°-70°	549.4	11.2
70°-80°	265.8	5.4
80°-90°	58.5	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°	1432.7	29.1
0°-40°	2338.5	47.5
0°-60°	4048.3	82.2
0°-90°	4922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4922.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1828	1826	1824	1833	1837	174
15°	1752	1755	1768	1789	1798	494
25°	1604	1614	1646	1680	1694	738
35°	1397	1409	1452	1489	1498	873
45°	1141	1157	1194	1224	1231	880
55°	851	860	890	927	917	761
65°	537	542	554	563	565	531
75°	244	246	247	246	249	262
85°	44	48	46	44	44	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	1834.9	1833.1	1829.6	1834.9	1838.4
5°	1827.8	1826.1	1824.3	1833.1	1836.7
7.5°	1815.5	1815.5	1817.2	1826.1	1829.6
10°	1797.8	1799.6	1803.1	1817.2	1820.8
12.5°	1776.6	1780.1	1789.0	1804.9	1811.9
15°	1751.9	1755.4	1767.8	1789.0	1797.8
17.5°	1720.1	1727.2	1744.8	1769.5	1778.4
20°	1684.8	1693.6	1716.6	1744.8	1755.4
22.5°	1645.9	1654.8	1684.8	1714.8	1725.4
25°	1603.5	1614.1	1645.9	1679.5	1693.6
27.5°	1557.6	1570.0	1605.3	1640.6	1654.8
30°	1506.4	1520.5	1557.6	1594.7	1607.1
32.5°	1451.7	1465.8	1508.2	1543.5	1555.9
35°	1396.9	1409.3	1451.7	1488.7	1497.6
37.5°	1335.1	1349.2	1395.1	1426.9	1439.3
40°	1275.1	1289.2	1329.8	1361.6	1372.2
42.5°	1209.7	1223.8	1264.5	1294.5	1303.3
45°	1140.8	1156.7	1193.8	1223.8	1230.9
47.5°	1072.0	1084.3	1123.2	1149.7	1155.0
50°	999.6	1011.9	1047.2	1073.7	1079.0
52.5°	923.6	943.1	971.3	990.7	1013.7
55°	851.2	860.0	890.1	927.2	916.6
57.5°	778.8	784.1	808.8	824.7	828.3
60°	699.3	706.4	725.8	734.7	743.5
62.5°	616.3	621.6	644.6	653.4	657.0
65°	536.9	542.2	554.5	563.4	565.1
67.5°	455.6	460.9	471.5	478.6	510.4
70°	381.5	385.0	390.3	404.4	395.6
72.5°	310.8	312.6	317.9	317.9	319.6
75°	243.7	245.5	247.2	245.5	249.0
77.5°	181.9	185.4	187.2	185.4	183.7
80°	130.7	134.2	132.5	128.9	128.9
82.5°	84.8	86.5	84.8	83.0	83.0
85°	44.2	47.7	45.9	44.2	44.2
87.5°	15.9	17.7	19.4	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)