

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: P296724

Luminaire Tested: **D3X-WD-45L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296724  
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-45L83050-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: 4034.0 lumens  
Efficiency: N/A  
Efficacy: 128.5 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

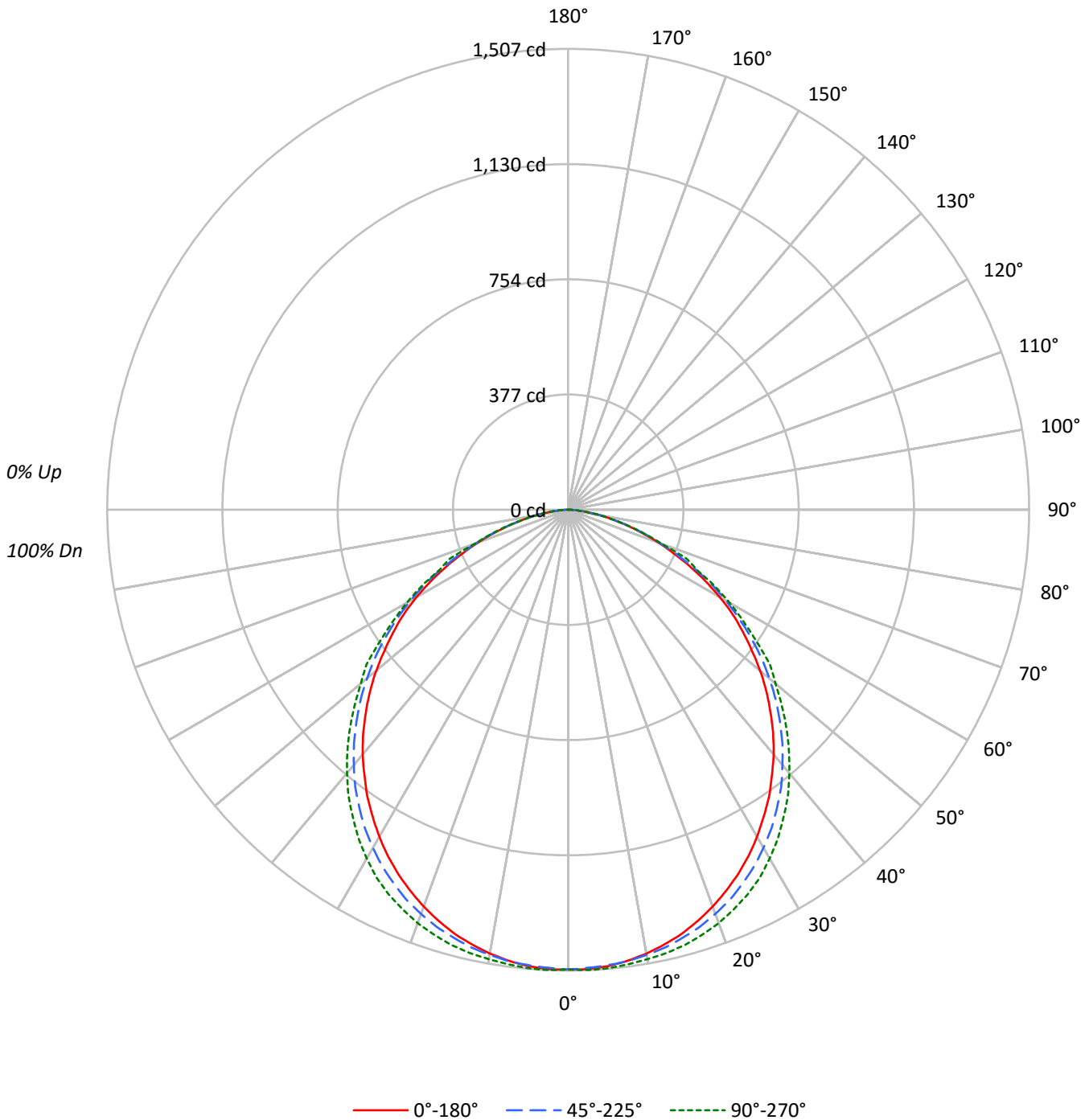
Input Watts (W): 31.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2023	2023	2023
5°	2023	2019	2033
10°	2013	2019	2039
15°	2000	2018	2053
20°	1977	2014	2060
25°	1951	2003	2061
30°	1918	1983	2046
35°	1881	1954	2016
40°	1835	1914	1975
45°	1779	1862	1920
50°	1715	1797	1851
55°	1636	1711	1762
60°	1542	1601	1640
65°	1401	1447	1475
70°	1230	1258	1275
75°	1038	1053	1061
80°	830	841	819
85°	559	580	559



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	3.5
10°-20°	409.9	10.2
20°-30°	621.8	15.4
30°-40°	742.4	18.4
40°-50°	751.6	18.6
50°-60°	649.7	16.1
60°-70°	450.3	11.2
70°-80°	217.9	5.4
80°-90°	47.9	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°	1174.2	29.1
0°-40°	1916.6	47.5
0°-60°	3317.9	82.2
0°-90°	4034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4034.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1498	1497	1495	1502	1505	142
15°	1436	1439	1449	1466	1474	405
25°	1314	1323	1349	1376	1388	605
35°	1145	1155	1190	1220	1227	715
45°	935	948	978	1003	1009	721
55°	698	705	730	760	751	623
65°	440	444	454	462	463	435
75°	200	201	203	201	204	214
85°	36	39	38	36	36	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1503.8	1503.8	1503.8	1503.8	1503.8
2.5°	1503.8	1502.4	1499.5	1503.8	1506.7
5°	1498.1	1496.6	1495.2	1502.4	1505.3
7.5°	1487.9	1487.9	1489.4	1496.6	1499.5
10°	1473.5	1474.9	1477.8	1489.4	1492.3
12.5°	1456.1	1459.0	1466.2	1479.2	1485.0
15°	1435.8	1438.7	1448.8	1466.2	1473.5
17.5°	1409.8	1415.6	1430.0	1450.3	1457.5
20°	1380.8	1388.1	1406.9	1430.0	1438.7
22.5°	1349.0	1356.2	1380.8	1405.4	1414.1
25°	1314.2	1322.9	1349.0	1376.5	1388.1
27.5°	1276.6	1286.7	1315.7	1344.6	1356.2
30°	1234.6	1246.2	1276.6	1307.0	1317.1
32.5°	1189.8	1201.3	1236.1	1265.0	1275.2
35°	1144.9	1155.0	1189.8	1220.2	1227.4
37.5°	1094.2	1105.8	1143.4	1169.5	1179.6
40°	1045.0	1056.6	1089.9	1115.9	1124.6
42.5°	991.5	1003.0	1036.3	1060.9	1068.2
45°	935.0	948.0	978.4	1003.0	1008.8
47.5°	878.6	888.7	920.5	942.3	946.6
50°	819.2	829.4	858.3	880.0	884.4
52.5°	757.0	772.9	796.1	812.0	830.8
55°	697.6	704.9	729.5	759.9	751.2
57.5°	638.3	642.6	662.9	675.9	678.8
60°	573.2	579.0	594.9	602.1	609.4
62.5°	505.1	509.5	528.3	535.5	538.4
65°	440.0	444.4	454.5	461.7	463.2
67.5°	373.4	377.8	386.5	392.2	418.3
70°	312.6	315.5	319.9	331.5	324.2
72.5°	254.7	256.2	260.5	260.5	262.0
75°	199.7	201.2	202.6	201.2	204.1
77.5°	149.1	152.0	153.4	152.0	150.5
80°	107.1	110.0	108.6	105.7	105.7
82.5°	69.5	70.9	69.5	68.0	68.0
85°	36.2	39.1	37.6	36.2	36.2
87.5°	13.0	14.5	15.9	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)