

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: P296785

Luminaire Tested: **D3X-WD-42L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296785  
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-42L82765-LD5-UNV-24-T1-W2A-6500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4135.0 lumens  
Efficiency: N/A  
Efficacy: 136.0 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

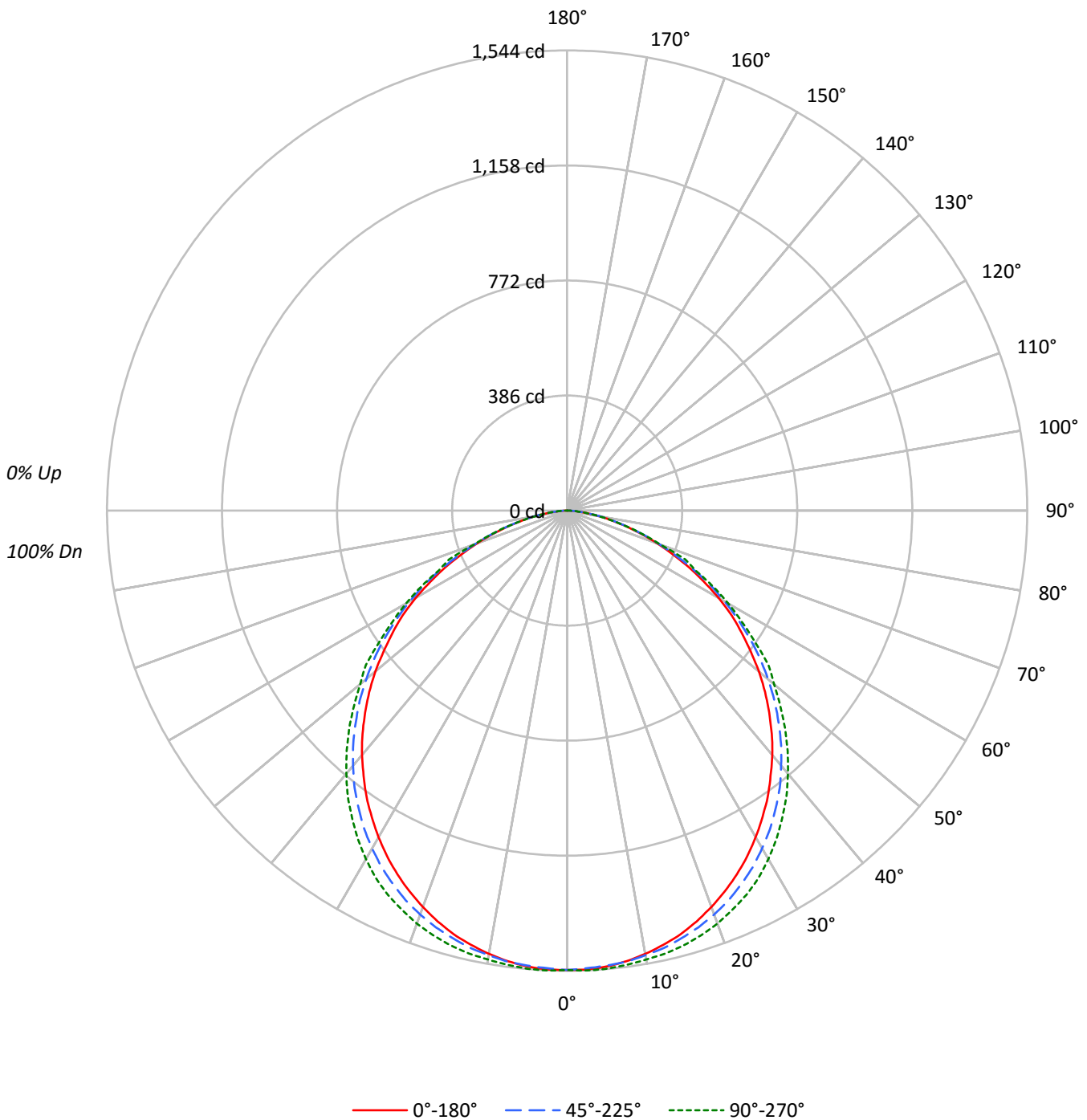
Input Watts (W): 30.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2074	2074	2074
5°	2074	2070	2084
10°	2063	2070	2090
15°	2050	2069	2104
20°	2027	2065	2112
25°	2000	2053	2112
30°	1966	2033	2098
35°	1928	2003	2066
40°	1881	1962	2025
45°	1824	1908	1968
50°	1758	1842	1897
55°	1677	1754	1806
60°	1581	1641	1681
65°	1436	1483	1512
70°	1261	1290	1307
75°	1064	1080	1088
80°	851	862	839
85°	573	596	573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.1	3.5
10°-20°	420.1	10.2
20°-30°	637.4	15.4
30°-40°	761.0	18.4
40°-50°	770.4	18.6
50°-60°	666.0	16.1
60°-70°	461.6	11.2
70°-80°	223.3	5.4
80°-90°	49.1	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°	1203.6	29.1
0°-40°	1964.6	47.5
0°-60°	3401.0	82.2
0°-90°	4135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1536	1534	1533	1540	1543	146
15°	1472	1475	1485	1503	1510	415
25°	1347	1356	1383	1411	1423	620
35°	1174	1184	1220	1251	1258	733
45°	958	972	1003	1028	1034	739
55°	715	722	748	779	770	639
65°	451	456	466	473	475	446
75°	205	206	208	206	209	220
85°	37	40	39	37	37	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1541.5	1541.5	1541.5	1541.5	1541.5
2.5°	1541.5	1540.0	1537.0	1541.5	1544.5
5°	1535.6	1534.1	1532.6	1540.0	1543.0
7.5°	1525.2	1525.2	1526.7	1534.1	1537.0
10°	1510.3	1511.8	1514.8	1526.7	1529.6
12.5°	1492.5	1495.5	1502.9	1516.3	1522.2
15°	1471.8	1474.7	1485.1	1502.9	1510.3
17.5°	1445.1	1451.0	1465.8	1486.6	1494.0
20°	1415.4	1422.8	1442.1	1465.8	1474.7
22.5°	1382.7	1390.2	1415.4	1440.6	1449.5
25°	1347.1	1356.0	1382.7	1410.9	1422.8
27.5°	1308.6	1319.0	1348.6	1378.3	1390.2
30°	1265.5	1277.4	1308.6	1339.7	1350.1
32.5°	1219.5	1231.4	1267.0	1296.7	1307.1
35°	1173.6	1183.9	1219.5	1250.7	1258.1
37.5°	1121.6	1133.5	1172.1	1198.8	1209.2
40°	1071.2	1083.1	1117.2	1143.9	1152.8
42.5°	1016.3	1028.2	1062.3	1087.5	1094.9
45°	958.4	971.8	1002.9	1028.2	1034.1
47.5°	900.6	911.0	943.6	965.8	970.3
50°	839.7	850.1	879.8	902.1	906.5
52.5°	775.9	792.3	816.0	832.3	851.6
55°	715.1	722.5	747.8	778.9	770.0
57.5°	654.3	658.7	679.5	692.9	695.8
60°	587.5	593.5	609.8	617.2	624.6
62.5°	517.8	522.2	541.5	548.9	551.9
65°	451.0	455.5	465.9	473.3	474.8
67.5°	382.8	387.2	396.1	402.1	428.8
70°	320.5	323.4	327.9	339.8	332.3
72.5°	261.1	262.6	267.1	267.1	268.5
75°	204.7	206.2	207.7	206.2	209.2
77.5°	152.8	155.8	157.3	155.8	154.3
80°	109.8	112.8	111.3	108.3	108.3
82.5°	71.2	72.7	71.2	69.7	69.7
85°	37.1	40.1	38.6	37.1	37.1
87.5°	13.4	14.8	16.3	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)