

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: P297067

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4037.0 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

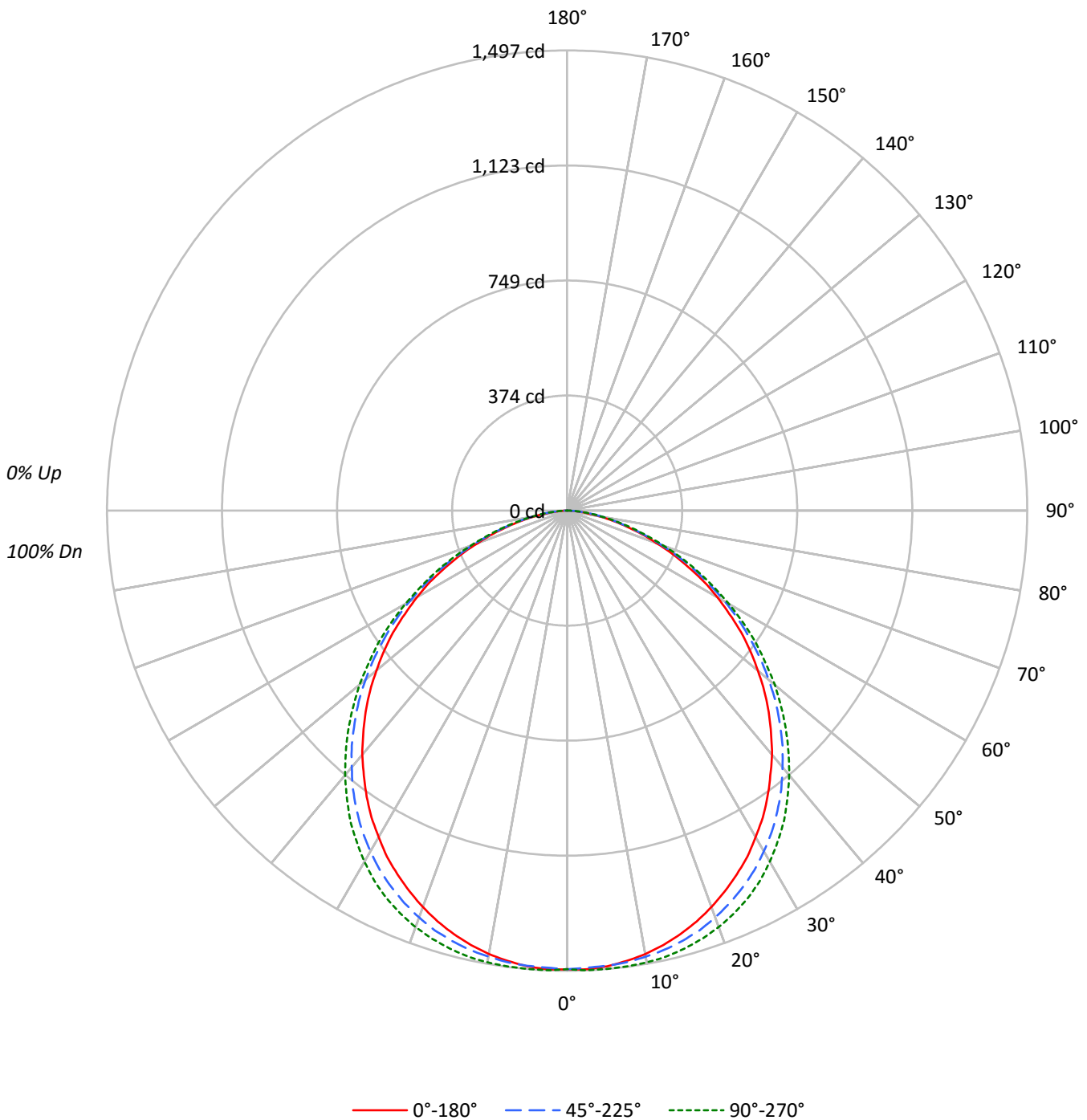
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2008	2008	2008
5°	2010	2008	2021
10°	2001	2013	2039
15°	1986	2018	2055
20°	1965	2017	2064
25°	1939	2007	2065
30°	1905	1988	2049
35°	1867	1960	2021
40°	1821	1915	1974
45°	1764	1860	1915
50°	1695	1792	1846
55°	1621	1703	1757
60°	1518	1595	1635
65°	1386	1459	1496
70°	1218	1280	1314
75°	1030	1082	1120
80°	818	896	919
85°	559	670	647



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.8	3.5
10°-20°	409.4	10.1
20°-30°	622.1	15.4
30°-40°	742.4	18.4
40°-50°	749.8	18.6
50°-60°	646.0	16.0
60°-70°	450.3	11.2
70°-80°	223.2	5.5
80°-90°	52.0	1.3
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°	1173.3	29.1
0°-40°	1915.7	47.5
0°-60°	3311.5	82.0
0°-90°	4037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4037.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1488	1487	1487	1494	1497	141
15°	1426	1433	1449	1468	1475	402
25°	1306	1323	1352	1380	1391	602
35°	1137	1155	1193	1220	1231	710
45°	927	947	978	1001	1006	715
55°	691	706	726	743	749	616
65°	435	444	458	463	470	432
75°	198	201	208	213	216	214
85°	36	43	43	40	42	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1492.4	1492.4	1492.4	1492.4	1492.4
2.5°	1493.8	1490.9	1488.1	1493.8	1496.7
5°	1488.1	1486.6	1486.6	1493.8	1496.7
7.5°	1477.9	1477.9	1482.3	1492.4	1495.3
10°	1464.9	1467.8	1473.6	1488.1	1492.4
12.5°	1447.6	1453.3	1463.5	1480.8	1486.6
15°	1425.9	1433.1	1449.0	1467.8	1475.0
17.5°	1401.3	1411.4	1431.7	1453.3	1460.6
20°	1372.4	1385.4	1408.5	1433.1	1441.8
22.5°	1340.6	1356.5	1382.5	1408.5	1418.6
25°	1305.8	1323.2	1352.1	1379.6	1391.2
27.5°	1269.7	1287.0	1318.9	1346.3	1357.9
30°	1226.3	1246.6	1279.8	1308.7	1318.9
32.5°	1184.4	1204.6	1239.3	1265.4	1275.5
35°	1136.6	1155.4	1193.0	1220.5	1230.6
37.5°	1086.0	1107.7	1143.9	1168.5	1177.1
40°	1036.9	1055.7	1090.4	1115.0	1123.6
42.5°	981.9	1002.2	1036.9	1058.6	1065.8
45°	927.0	947.2	977.6	1000.7	1006.5
47.5°	870.6	889.4	919.7	938.5	944.3
50°	809.8	827.2	856.1	874.9	882.1
52.5°	752.0	767.9	792.5	808.4	812.7
55°	691.2	705.7	726.0	743.3	749.1
57.5°	626.2	642.1	660.9	675.3	679.7
60°	564.0	577.0	592.9	605.9	607.4
62.5°	503.2	509.0	523.5	535.1	536.5
65°	435.3	444.0	458.4	462.8	470.0
67.5°	373.1	378.9	390.5	396.2	402.0
70°	309.5	313.8	325.4	332.6	334.1
72.5°	254.5	256.0	264.6	270.4	271.9
75°	198.1	201.0	208.2	212.6	215.5
77.5°	150.4	153.3	159.1	162.0	162.0
80°	105.6	109.9	115.7	117.1	118.6
82.5°	68.0	73.8	78.1	79.5	76.6
85°	36.2	43.4	43.4	40.5	41.9
87.5°	13.0	15.9	17.4	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)