

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: P296788

Luminaire Tested: **D3X-WD-45L82765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296788  
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-45L82765-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4169.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 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

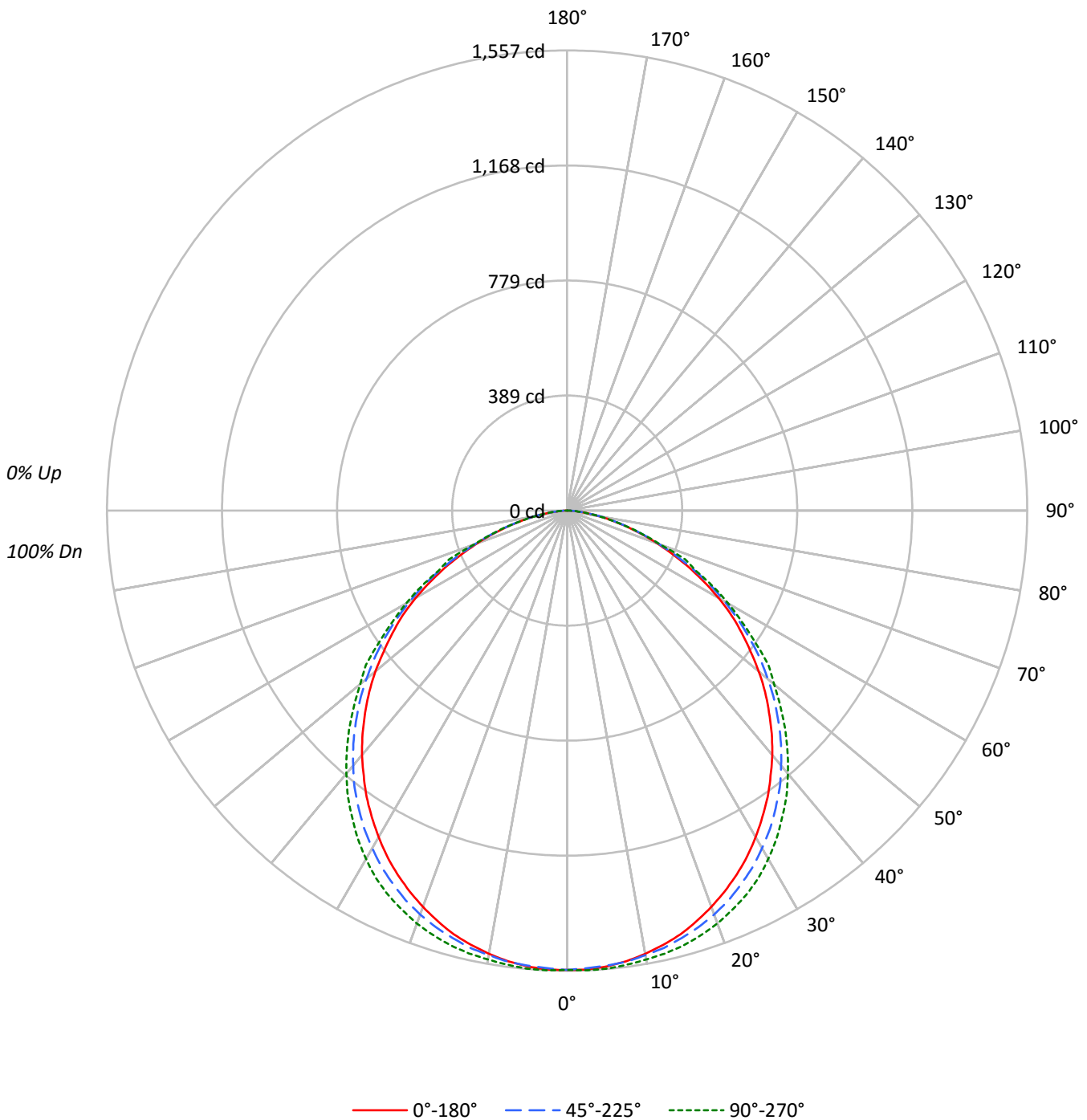
Input Watts (W): 31.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	2091	2091	2091
5°	2091	2087	2101
10°	2081	2087	2107
15°	2067	2086	2121
20°	2043	2082	2129
25°	2016	2070	2130
30°	1982	2050	2115
35°	1943	2020	2084
40°	1897	1978	2041
45°	1839	1924	1984
50°	1772	1857	1913
55°	1691	1768	1821
60°	1594	1654	1695
65°	1448	1495	1524
70°	1271	1301	1318
75°	1073	1089	1096
80°	858	869	846
85°	577	601	577



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	3.5
10°-20°	423.6	10.2
20°-30°	642.7	15.4
30°-40°	767.3	18.4
40°-50°	776.8	18.6
50°-60°	671.4	16.1
60°-70°	465.4	11.2
70°-80°	225.2	5.4
80°-90°	49.5	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°	1213.5	29.1
0°-40°	1980.8	47.5
0°-60°	3429.0	82.2
0°-90°	4169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1548	1547	1545	1553	1556	147
15°	1484	1487	1497	1515	1523	418
25°	1358	1367	1394	1422	1434	625
35°	1183	1194	1230	1261	1268	739
45°	966	980	1011	1037	1043	745
55°	721	728	754	785	776	644
65°	455	459	470	477	479	450
75°	206	208	209	208	211	222
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°	1554.2	1554.2	1554.2	1554.2	1554.2
2.5°	1554.2	1552.7	1549.7	1554.2	1557.2
5°	1548.2	1546.7	1545.2	1552.7	1555.7
7.5°	1537.7	1537.7	1539.2	1546.7	1549.7
10°	1522.8	1524.3	1527.2	1539.2	1542.2
12.5°	1504.8	1507.8	1515.3	1528.7	1534.7
15°	1483.9	1486.9	1497.3	1515.3	1522.8
17.5°	1456.9	1462.9	1477.9	1498.8	1506.3
20°	1427.0	1434.5	1454.0	1477.9	1486.9
22.5°	1394.1	1401.6	1427.0	1452.5	1461.4
25°	1358.2	1367.2	1394.1	1422.5	1434.5
27.5°	1319.3	1329.8	1359.7	1389.6	1401.6
30°	1275.9	1287.9	1319.3	1350.7	1361.2
32.5°	1229.6	1241.5	1277.4	1307.4	1317.8
35°	1183.2	1193.7	1229.6	1261.0	1268.5
37.5°	1130.9	1142.8	1181.7	1208.6	1219.1
40°	1080.0	1092.0	1126.4	1153.3	1162.3
42.5°	1024.6	1036.6	1071.0	1096.4	1103.9
45°	966.3	979.8	1011.2	1036.6	1042.6
47.5°	908.0	918.4	951.4	973.8	978.3
50°	846.6	857.1	887.0	909.5	914.0
52.5°	782.3	798.8	822.7	839.2	858.6
55°	721.0	728.5	753.9	785.3	776.3
57.5°	659.7	664.2	685.1	698.6	701.5
60°	592.4	598.3	614.8	622.3	629.7
62.5°	522.0	526.5	546.0	553.5	556.5
65°	454.7	459.2	469.7	477.2	478.7
67.5°	385.9	390.4	399.4	405.4	432.3
70°	323.1	326.1	330.6	342.5	335.1
72.5°	263.3	264.8	269.3	269.3	270.7
75°	206.4	207.9	209.4	207.9	210.9
77.5°	154.1	157.1	158.6	157.1	155.6
80°	110.7	113.7	112.2	109.2	109.2
82.5°	71.8	73.3	71.8	70.3	70.3
85°	37.4	40.4	38.9	37.4	37.4
87.5°	13.5	15.0	16.5	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)