

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: P296867

Luminaire Tested: **D3X-WD-45L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296867  
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-45L93050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3987.0 lumens  
Efficiency: N/A  
Efficacy: 121.6 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

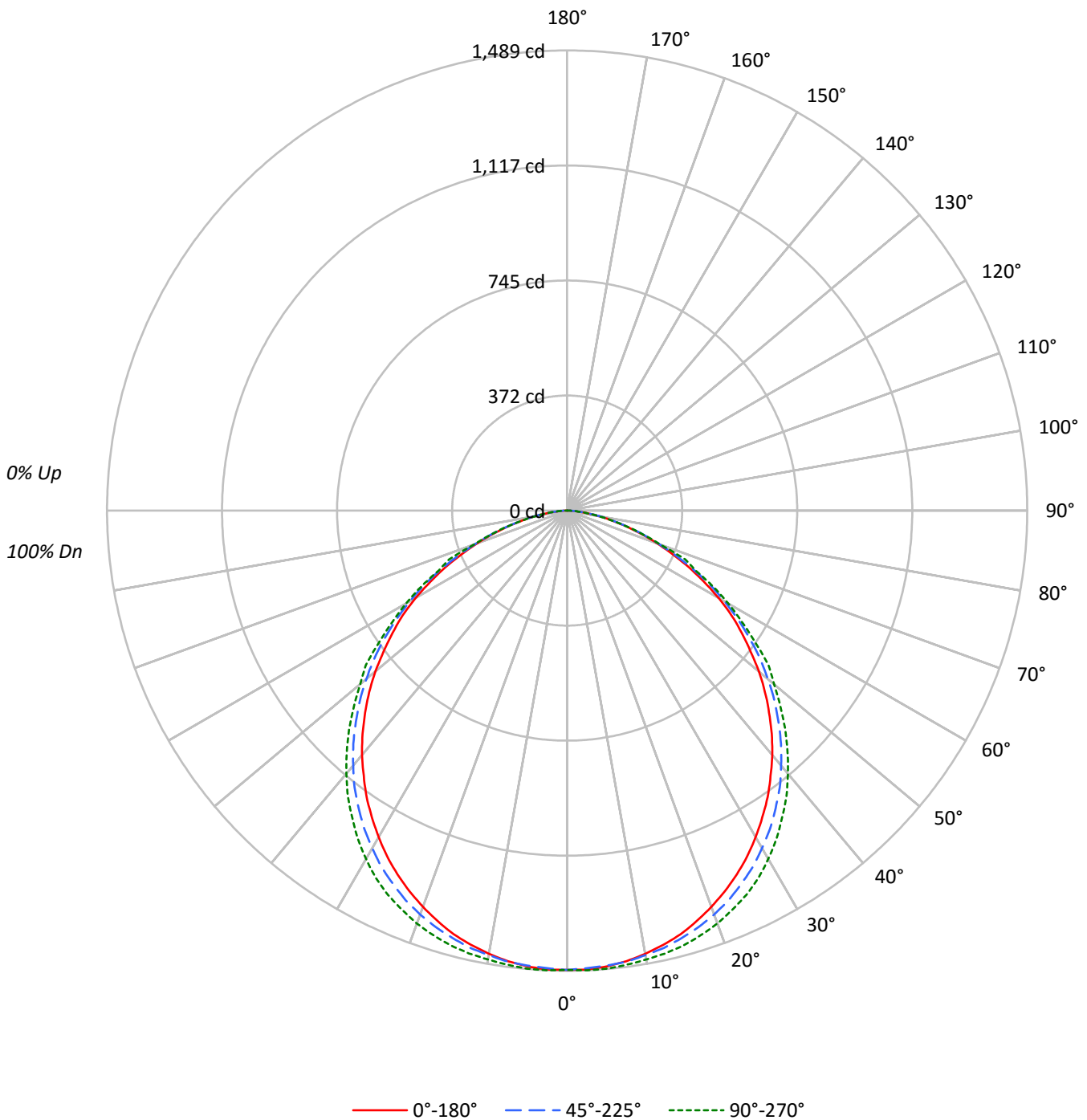
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2000	2000	2000
5°	2000	1996	2009
10°	1990	1996	2015
15°	1977	1995	2029
20°	1954	1991	2036
25°	1928	1979	2037
30°	1896	1960	2023
35°	1859	1931	1993
40°	1814	1892	1952
45°	1758	1840	1897
50°	1695	1776	1830
55°	1617	1691	1742
60°	1524	1582	1621
65°	1385	1430	1457
70°	1216	1244	1260
75°	1026	1041	1049
80°	821	831	809
85°	553	574	553



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	3.5
10°-20°	405.1	10.2
20°-30°	614.6	15.4
30°-40°	733.8	18.4
40°-50°	742.9	18.6
50°-60°	642.1	16.1
60°-70°	445.0	11.2
70°-80°	215.3	5.4
80°-90°	47.3	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°	1160.5	29.1
0°-40°	1894.3	47.5
0°-60°	3279.3	82.2
0°-90°	3987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3987.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1481	1479	1478	1485	1488	141
15°	1419	1422	1432	1449	1456	400
25°	1299	1308	1333	1360	1372	598
35°	1132	1142	1176	1206	1213	707
45°	924	937	967	991	997	713
55°	690	697	721	751	742	616
65°	435	439	449	456	458	430
75°	197	199	200	199	202	212
85°	36	39	37	36	36	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1486.3	1486.3	1486.3	1486.3	1486.3
2.5°	1486.3	1484.9	1482.0	1486.3	1489.2
5°	1480.6	1479.2	1477.7	1484.9	1487.8
7.5°	1470.6	1470.6	1472.0	1479.2	1482.0
10°	1456.3	1457.7	1460.6	1472.0	1474.9
12.5°	1439.1	1442.0	1449.1	1462.0	1467.7
15°	1419.1	1422.0	1432.0	1449.1	1456.3
17.5°	1393.3	1399.1	1413.4	1433.4	1440.5
20°	1364.7	1371.9	1390.5	1413.4	1422.0
22.5°	1333.3	1340.4	1364.7	1389.0	1397.6
25°	1298.9	1307.5	1333.3	1360.4	1371.9
27.5°	1261.7	1271.7	1300.4	1329.0	1340.4
30°	1220.2	1231.7	1261.7	1291.8	1301.8
32.5°	1175.9	1187.3	1221.7	1250.3	1260.3
35°	1131.6	1141.6	1175.9	1205.9	1213.1
37.5°	1081.5	1092.9	1130.1	1155.9	1165.9
40°	1032.8	1044.3	1077.2	1102.9	1111.5
42.5°	979.9	991.4	1024.3	1048.6	1055.7
45°	924.1	937.0	967.0	991.4	997.1
47.5°	868.3	878.3	909.8	931.3	935.6
50°	809.7	819.7	848.3	869.8	874.1
52.5°	748.2	763.9	786.8	802.5	821.1
55°	689.5	696.7	721.0	751.0	742.4
57.5°	630.9	635.2	655.2	668.1	670.9
60°	566.5	572.2	587.9	595.1	602.3
62.5°	499.3	503.5	522.1	529.3	532.2
65°	434.9	439.2	449.2	456.3	457.8
67.5°	369.1	373.4	382.0	387.7	413.4
70°	309.0	311.9	316.1	327.6	320.4
72.5°	251.8	253.2	257.5	257.5	258.9
75°	197.4	198.8	200.3	198.8	201.7
77.5°	147.3	150.2	151.6	150.2	148.8
80°	105.9	108.7	107.3	104.4	104.4
82.5°	68.7	70.1	68.7	67.2	67.2
85°	35.8	38.6	37.2	35.8	35.8
87.5°	12.9	14.3	15.7	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)