

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: P298322

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-35L83050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3717.0 lumens  
Efficiency: N/A  
Efficacy: 130.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

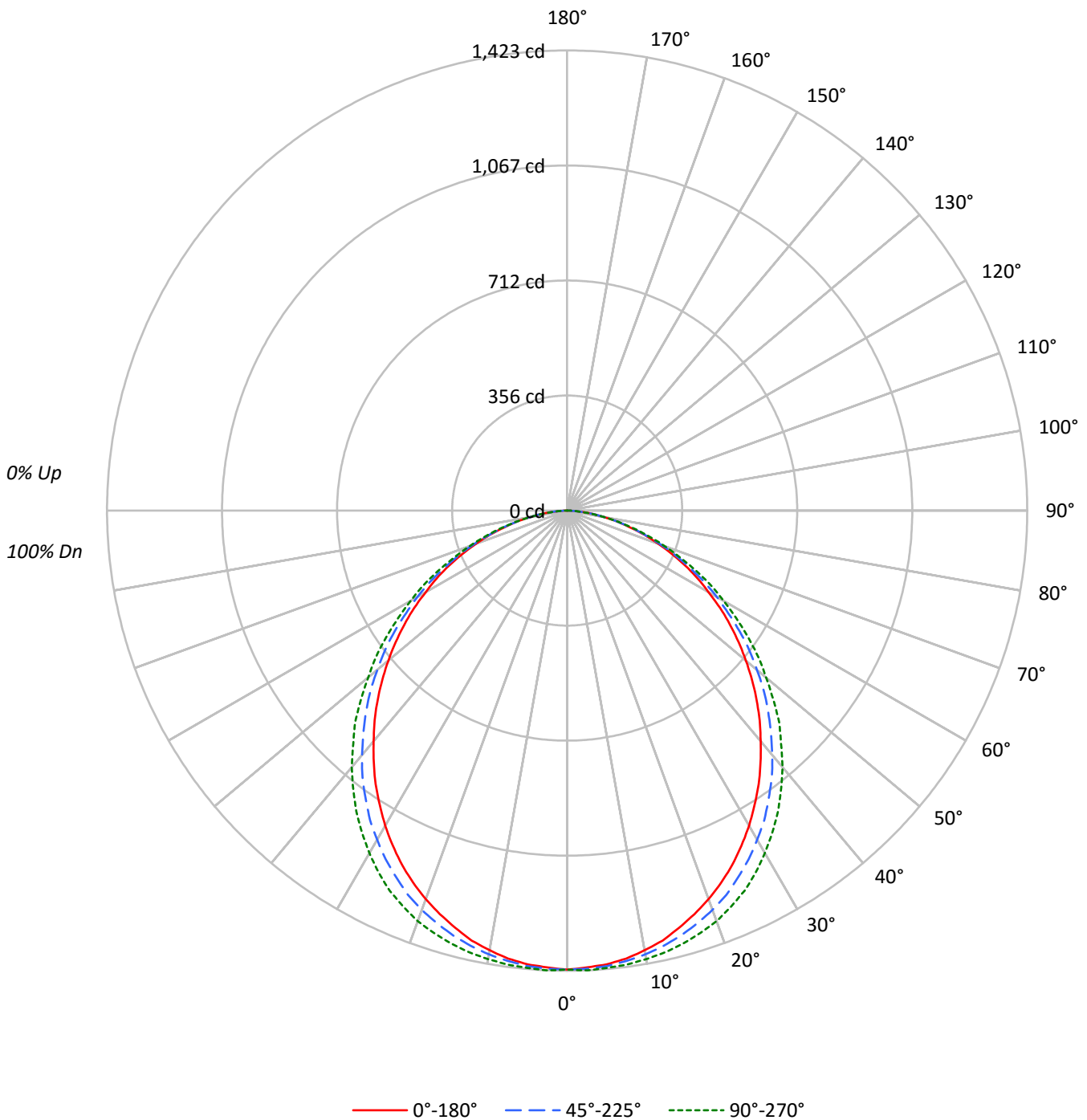
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	3820	3820	3820
5°	3804	3819	3834
10°	3772	3808	3848
15°	3723	3790	3862
20°	3662	3763	3869
25°	3588	3715	3852
30°	3496	3652	3801
35°	3393	3569	3733
40°	3270	3465	3641
45°	3155	3346	3529
50°	3022	3208	3363
55°	2883	3056	3204
60°	2719	2879	3008
65°	2569	2663	2793
70°	2359	2432	2519
75°	2097	2155	2213
80°	1807	1777	1777
85°	1371	1257	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	3.6
10°-20°	383.8	10.3
20°-30°	576.3	15.5
30°-40°	678.2	18.2
40°-50°	676.5	18.2
50°-60°	580.5	15.6
60°-70°	415.8	11.2
70°-80°	220.2	5.9
80°-90°	51.5	1.4
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°	1094.4	29.4
0°-40°	1772.6	47.7
0°-60°	3029.6	81.5
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1408	1408	1414	1418	1420	134
15°	1336	1342	1360	1379	1386	377
25°	1208	1220	1251	1282	1297	556
35°	1033	1046	1086	1123	1136	645
45°	829	842	879	910	927	639
55°	614	624	651	674	683	549
65°	404	405	418	435	439	398
75°	202	202	207	211	213	216
85°	44	43	41	37	37	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1419.5	1419.5	1419.5	1419.5	1419.5
2.5°	1413.9	1413.9	1417.6	1421.3	1423.2
5°	1408.4	1408.4	1413.9	1417.6	1419.5
7.5°	1397.3	1397.3	1404.7	1412.1	1415.8
10°	1380.6	1384.3	1393.6	1404.7	1408.4
12.5°	1362.1	1365.8	1378.8	1393.6	1399.1
15°	1336.2	1341.8	1360.3	1378.8	1386.2
17.5°	1308.4	1315.8	1338.1	1360.3	1369.5
20°	1278.8	1286.2	1314.0	1339.9	1351.0
22.5°	1245.5	1254.8	1286.2	1314.0	1325.1
25°	1208.5	1219.6	1251.1	1282.5	1297.3
27.5°	1167.8	1180.7	1215.9	1249.2	1262.2
30°	1125.2	1140.0	1175.2	1210.4	1223.3
32.5°	1079.0	1091.9	1134.5	1167.8	1180.7
35°	1032.7	1045.6	1086.4	1123.4	1136.3
37.5°	982.7	999.4	1040.1	1073.4	1086.4
40°	930.9	947.6	986.4	1025.3	1036.4
42.5°	880.9	895.7	932.8	967.9	979.0
45°	829.1	842.1	879.1	910.5	927.2
47.5°	775.4	788.4	825.4	855.0	864.3
50°	721.8	734.7	766.2	792.1	803.2
52.5°	668.1	681.1	710.7	734.7	745.8
55°	614.4	623.7	651.4	673.7	682.9
57.5°	560.8	568.2	590.4	614.4	620.0
60°	505.2	514.5	534.9	551.5	558.9
62.5°	455.3	459.0	477.5	492.3	501.5
65°	403.5	405.3	418.3	434.9	438.6
67.5°	349.8	351.6	364.6	373.8	377.5
70°	299.8	299.8	309.1	316.5	320.2
72.5°	251.7	249.8	255.4	262.8	266.5
75°	201.7	201.7	207.3	211.0	212.8
77.5°	159.2	155.5	159.2	162.9	162.9
80°	116.6	114.7	114.7	116.6	114.7
82.5°	79.6	77.7	79.6	75.9	74.0
85°	44.4	42.6	40.7	37.0	37.0
87.5°	14.8	13.0	13.0	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)