

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: P298163

Luminaire Tested: **D3X-WG-44L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-44L83050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4114.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

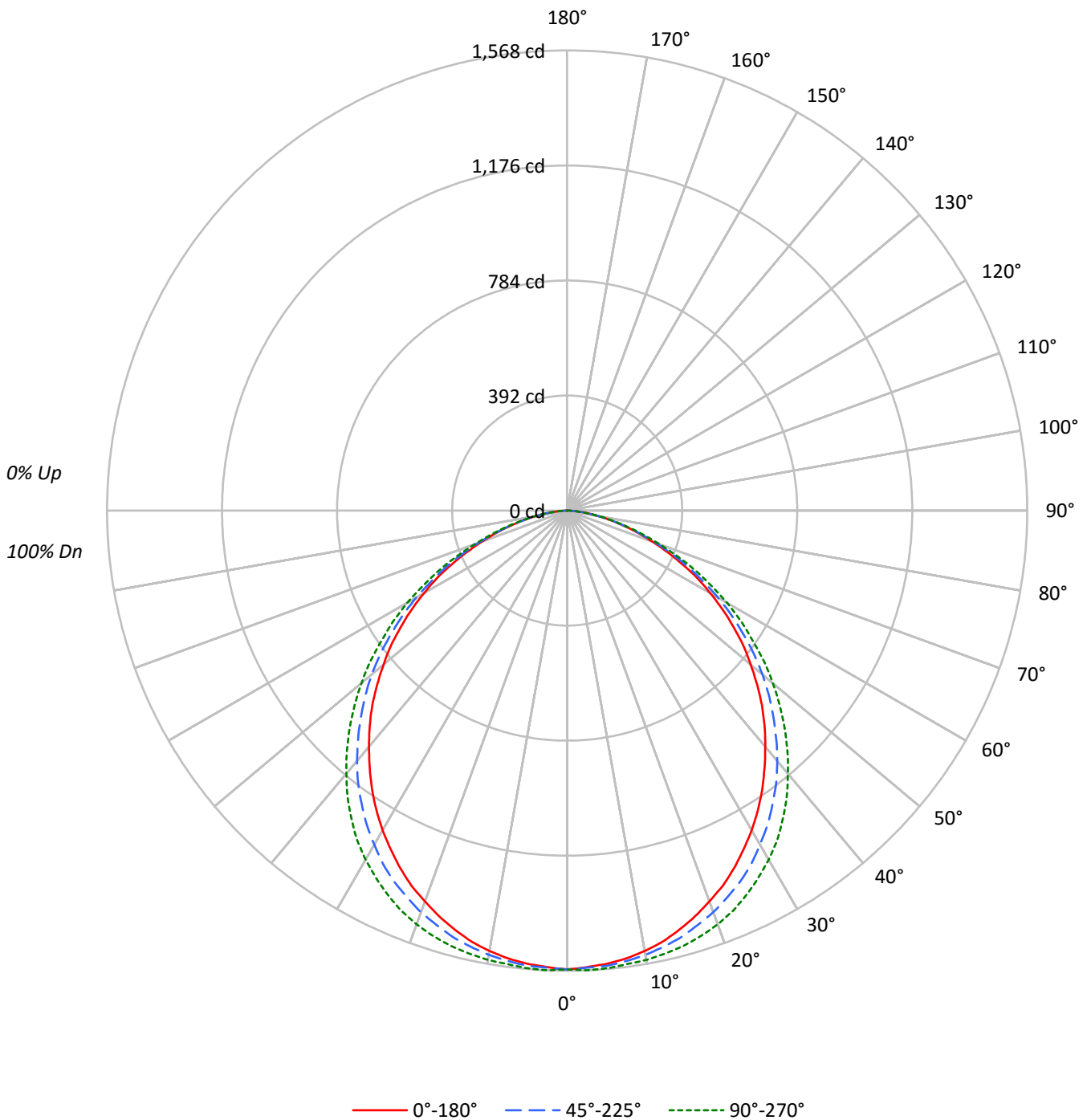
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	4207	4207	4207
5°	4188	4206	4229
10°	4165	4200	4248
15°	4118	4191	4276
20°	4058	4171	4296
25°	3994	4143	4292
30°	3908	4085	4268
35°	3809	4010	4210
40°	3690	3912	4111
45°	3573	3781	3989
50°	3419	3638	3830
55°	3248	3432	3616
60°	3032	3196	3385
65°	2767	2892	3059
70°	2423	2526	2629
75°	2066	2112	2202
80°	1658	1692	1726
85°	1213	1145	1078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	3.6
10°-20°	424.7	10.3
20°-30°	642.1	15.6
30°-40°	762.7	18.5
40°-50°	765.7	18.6
50°-60°	654.0	15.9
60°-70°	450.6	11.0
70°-80°	218.5	5.3
80°-90°	47.8	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°	1214.8	29.5
0°-40°	1977.5	48.1
0°-60°	3397.1	82.6
0°-90°	4114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1550	1550	1557	1561	1566	147
15°	1478	1485	1504	1524	1535	417
25°	1345	1356	1395	1432	1446	619
35°	1160	1177	1221	1266	1282	724
45°	939	952	994	1035	1048	723
55°	692	703	732	762	771	619
65°	434	434	454	474	480	430
75°	199	194	203	207	212	213
85°	39	39	37	35	35	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1563.4	1563.4	1563.4	1563.4	1563.4
2.5°	1556.9	1556.9	1559.0	1565.6	1567.8
5°	1550.3	1550.3	1556.9	1561.2	1565.6
7.5°	1539.4	1541.6	1548.1	1556.9	1559.0
10°	1524.1	1526.3	1537.2	1548.1	1554.7
12.5°	1504.5	1508.8	1521.9	1539.4	1545.9
15°	1478.3	1484.8	1504.5	1524.1	1535.0
17.5°	1449.9	1458.6	1480.4	1508.8	1519.7
20°	1417.1	1428.0	1456.4	1487.0	1500.1
22.5°	1384.4	1393.1	1425.9	1460.8	1476.1
25°	1345.1	1356.0	1395.3	1432.4	1445.5
27.5°	1301.4	1316.7	1358.2	1397.5	1410.6
30°	1257.7	1270.8	1314.5	1358.2	1373.4
32.5°	1209.7	1222.8	1270.8	1314.5	1332.0
35°	1159.5	1176.9	1220.6	1266.5	1281.7
37.5°	1104.9	1124.5	1170.4	1209.7	1229.3
40°	1050.3	1067.8	1113.6	1155.1	1170.4
42.5°	995.7	1011.0	1054.6	1098.3	1111.4
45°	938.9	952.0	993.5	1035.0	1048.1
47.5°	877.8	893.1	932.4	967.3	982.6
50°	816.6	831.9	869.0	901.8	914.9
52.5°	757.7	766.4	801.4	831.9	847.2
55°	692.2	703.1	731.5	762.1	770.8
57.5°	628.9	635.4	663.8	690.0	703.1
60°	563.4	567.7	593.9	613.6	628.9
62.5°	502.2	502.2	521.9	543.7	552.4
65°	434.5	434.5	454.2	473.8	480.4
67.5°	369.0	373.4	386.5	401.8	406.1
70°	307.9	307.9	321.0	331.9	334.1
72.5°	253.3	251.1	257.7	266.4	270.8
75°	198.7	194.3	203.1	207.4	211.8
77.5°	150.7	148.5	152.8	157.2	157.2
80°	107.0	104.8	109.2	109.2	111.4
82.5°	69.9	72.1	72.1	69.9	67.7
85°	39.3	39.3	37.1	34.9	34.9
87.5°	13.1	13.1	13.1	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)