

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: P296859

Luminaire Tested: **D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296859
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-42L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3078.0 lumens
Efficiency: N/A
Efficacy: 103.3 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

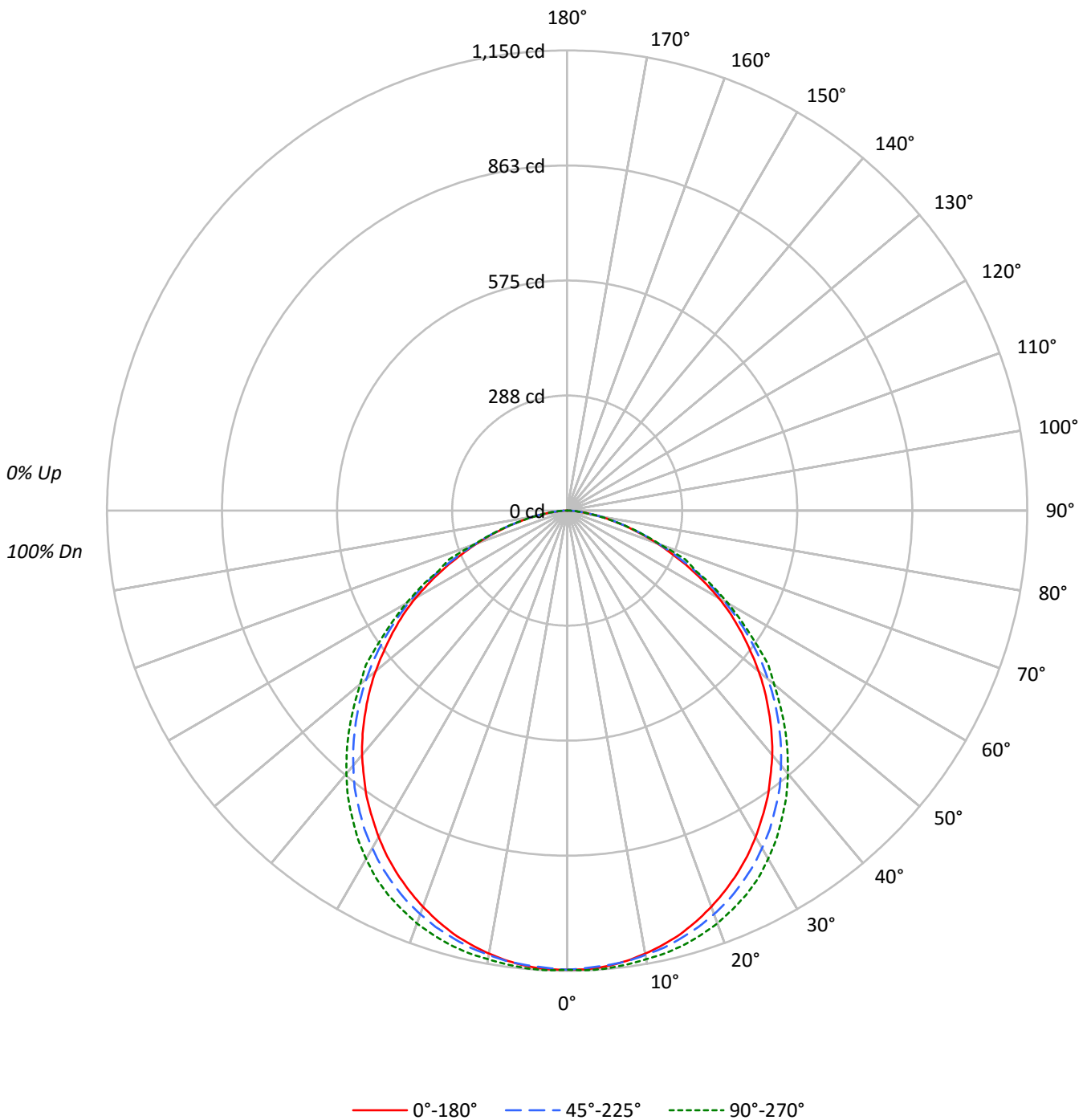
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1544	1544	1544
5°	1544	1541	1551
10°	1536	1541	1556
15°	1526	1540	1566
20°	1509	1537	1572
25°	1489	1528	1572
30°	1464	1513	1561
35°	1435	1491	1538
40°	1401	1461	1507
45°	1357	1421	1465
50°	1308	1371	1412
55°	1249	1306	1345
60°	1177	1221	1251
65°	1069	1104	1125
70°	938	960	973
75°	792	804	809
80°	633	642	625
85°	426	443	426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.5
10°-20°	312.7	10.2
20°-30°	474.5	15.4
30°-40°	566.5	18.4
40°-50°	573.5	18.6
50°-60°	495.7	16.1
60°-70°	343.6	11.2
70°-80°	166.2	5.4
80°-90°	36.5	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°	896.0	29.1
0°-40°	1462.4	47.5
0°-60°	2531.6	82.2
0°-90°	3078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3078.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1143	1142	1141	1146	1149	109
15°	1096	1098	1106	1119	1124	309
25°	1003	1009	1029	1050	1059	462
35°	874	881	908	931	936	546
45°	713	723	747	765	770	550
55°	532	538	557	580	573	476
65°	336	339	347	352	353	332
75°	152	154	155	154	156	164
85°	28	30	29	28	28	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.5	1147.5	1147.5	1147.5	1147.5
2.5°	1147.5	1146.4	1144.1	1147.5	1149.7
5°	1143.0	1141.9	1140.8	1146.4	1148.6
7.5°	1135.3	1135.3	1136.4	1141.9	1144.1
10°	1124.3	1125.4	1127.6	1136.4	1138.6
12.5°	1111.0	1113.2	1118.7	1128.7	1133.1
15°	1095.6	1097.8	1105.5	1118.7	1124.3
17.5°	1075.7	1080.1	1091.1	1106.6	1112.1
20°	1053.6	1059.1	1073.5	1091.1	1097.8
22.5°	1029.3	1034.8	1053.6	1072.4	1079.0
25°	1002.8	1009.4	1029.3	1050.3	1059.1
27.5°	974.1	981.8	1003.9	1026.0	1034.8
30°	942.0	950.9	974.1	997.3	1005.0
32.5°	907.8	916.6	943.1	965.2	973.0
35°	873.6	881.3	907.8	931.0	936.5
37.5°	834.9	843.8	872.5	892.3	900.1
40°	797.4	806.2	831.6	851.5	858.1
42.5°	756.5	765.3	790.7	809.5	815.0
45°	713.4	723.4	746.6	765.3	769.8
47.5°	670.4	678.1	702.4	719.0	722.3
50°	625.1	632.8	654.9	671.5	674.8
52.5°	577.6	589.7	607.4	619.6	633.9
55°	532.3	537.8	556.6	579.8	573.2
57.5°	487.0	490.3	505.8	515.7	518.0
60°	437.3	441.8	453.9	459.4	464.9
62.5°	385.4	388.7	403.1	408.6	410.8
65°	335.7	339.0	346.8	352.3	353.4
67.5°	284.9	288.2	294.9	299.3	319.2
70°	238.5	240.8	244.1	252.9	247.4
72.5°	194.4	195.5	198.8	198.8	199.9
75°	152.4	153.5	154.6	153.5	155.7
77.5°	113.8	116.0	117.1	116.0	114.9
80°	81.7	83.9	82.8	80.6	80.6
82.5°	53.0	54.1	53.0	51.9	51.9
85°	27.6	29.8	28.7	27.6	27.6
87.5°	9.9	11.0	12.1	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)