

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: P297994

Luminaire Tested: **D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L83050-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3834.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

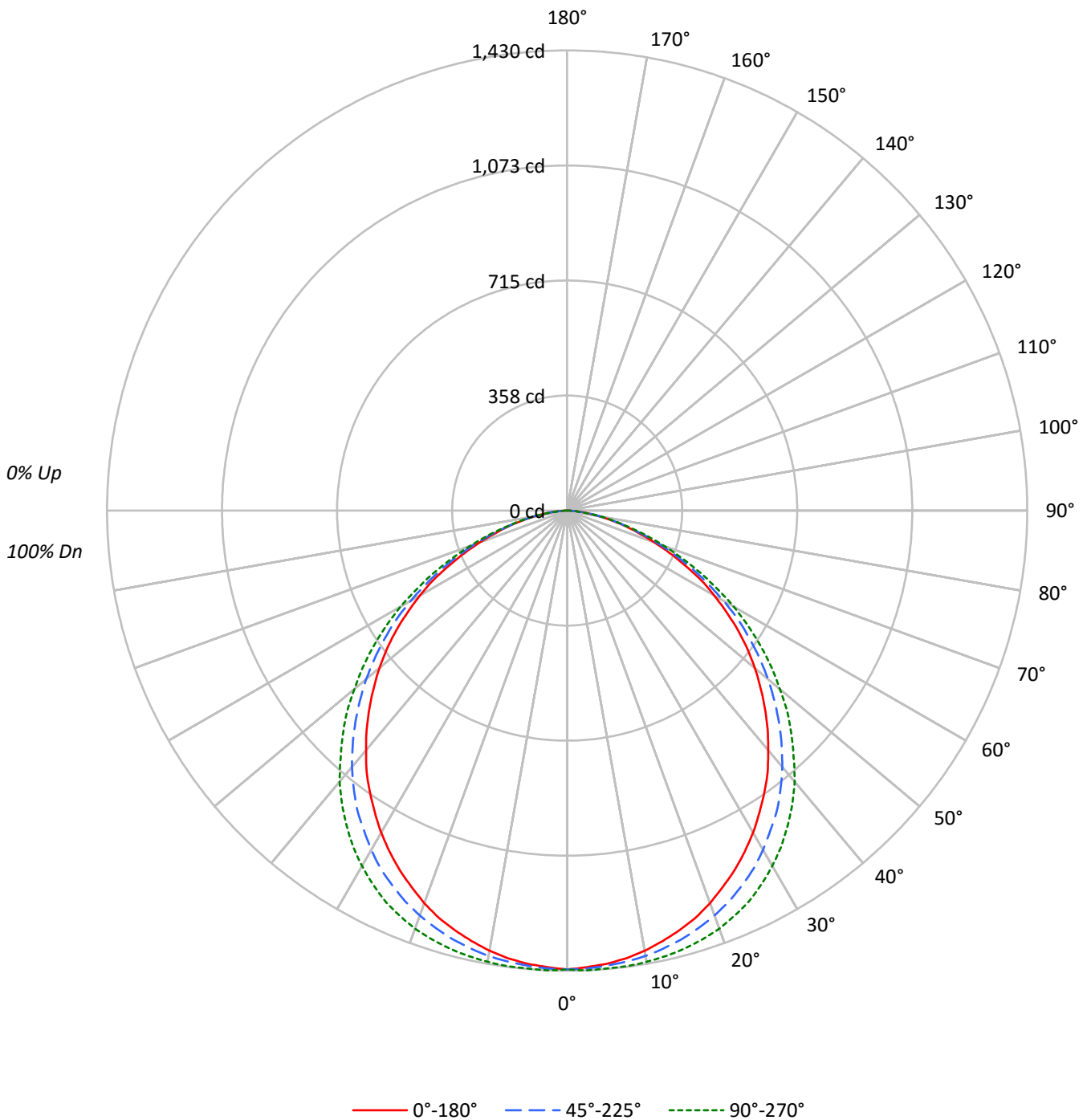
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	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°	3837	3837	3837
5°	3818	3835	3858
10°	3795	3840	3891
15°	3760	3841	3927
20°	3717	3835	3960
25°	3658	3817	3977
30°	3591	3783	3963
35°	3512	3735	3925
40°	3414	3654	3864
45°	3306	3542	3754
50°	3188	3413	3611
55°	3040	3243	3447
60°	2843	3021	3221
65°	2576	2734	2904
70°	2273	2387	2517
75°	1953	1995	2082
80°	1567	1599	1630
85°	1145	1019	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	3.5
10°-20°	389.3	10.2
20°-30°	592.1	15.4
30°-40°	708.4	18.5
40°-50°	716.2	18.7
50°-60°	616.3	16.1
60°-70°	425.5	11.1
70°-80°	206.3	5.4
80°-90°	44.7	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°	1116.5	29.1
0°-40°	1824.9	47.6
0°-60°	3157.4	82.4
0°-90°	3834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1426	1426	1426	1426	1426	
5°	1414	1416	1420	1426	1428	134
15°	1350	1358	1379	1399	1410	381
25°	1232	1246	1286	1325	1339	567
35°	1069	1088	1137	1178	1195	668
45°	869	885	931	970	986	670
55°	648	658	691	722	735	578
65°	404	411	429	448	456	403
75°	188	184	192	198	200	199
85°	37	37	33	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1426.0	1426.0	1426.0	1426.0	1426.0
2.5°	1419.8	1419.8	1424.0	1428.1	1430.2
5°	1413.6	1415.7	1419.8	1426.0	1428.1
7.5°	1403.3	1405.4	1413.6	1424.0	1428.1
10°	1388.9	1393.0	1405.4	1417.8	1424.0
12.5°	1370.3	1378.6	1393.0	1409.5	1417.8
15°	1349.7	1357.9	1378.6	1399.2	1409.5
17.5°	1327.0	1335.2	1360.0	1386.8	1397.1
20°	1298.1	1310.5	1339.3	1370.3	1382.7
22.5°	1265.1	1281.6	1314.6	1347.6	1362.0
25°	1232.0	1246.5	1285.7	1324.9	1339.3
27.5°	1194.9	1211.4	1254.7	1293.9	1308.4
30°	1155.7	1172.2	1217.6	1260.9	1275.4
32.5°	1112.3	1133.0	1176.3	1221.7	1238.2
35°	1069.0	1087.6	1137.1	1178.4	1194.9
37.5°	1023.6	1040.1	1089.6	1133.0	1149.5
40°	972.0	990.6	1040.1	1083.4	1100.0
42.5°	922.5	941.1	986.5	1027.7	1042.2
45°	868.8	885.3	930.7	969.9	986.5
47.5°	815.2	833.7	872.9	912.2	928.7
50°	761.5	776.0	815.2	852.3	862.6
52.5°	705.8	718.2	753.3	786.3	800.7
55°	648.0	658.3	691.3	722.3	734.7
57.5°	586.1	598.5	629.4	652.1	666.6
60°	528.3	534.5	561.3	584.0	598.5
62.5°	470.5	472.6	493.2	515.9	524.2
65°	404.5	410.7	429.3	447.8	456.1
67.5°	344.6	350.8	365.3	379.7	385.9
70°	288.9	288.9	303.4	313.7	319.9
72.5°	233.2	235.3	245.6	251.8	258.0
75°	187.8	183.7	191.9	198.1	200.2
77.5°	140.3	138.3	144.5	146.5	150.7
80°	101.1	101.1	103.2	105.2	105.2
82.5°	66.0	66.0	68.1	64.0	61.9
85°	37.1	37.1	33.0	33.0	33.0
87.5°	12.4	12.4	12.4	14.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)