

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: P297996

Luminaire Tested: **D3X-WD-44L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297996
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4260.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

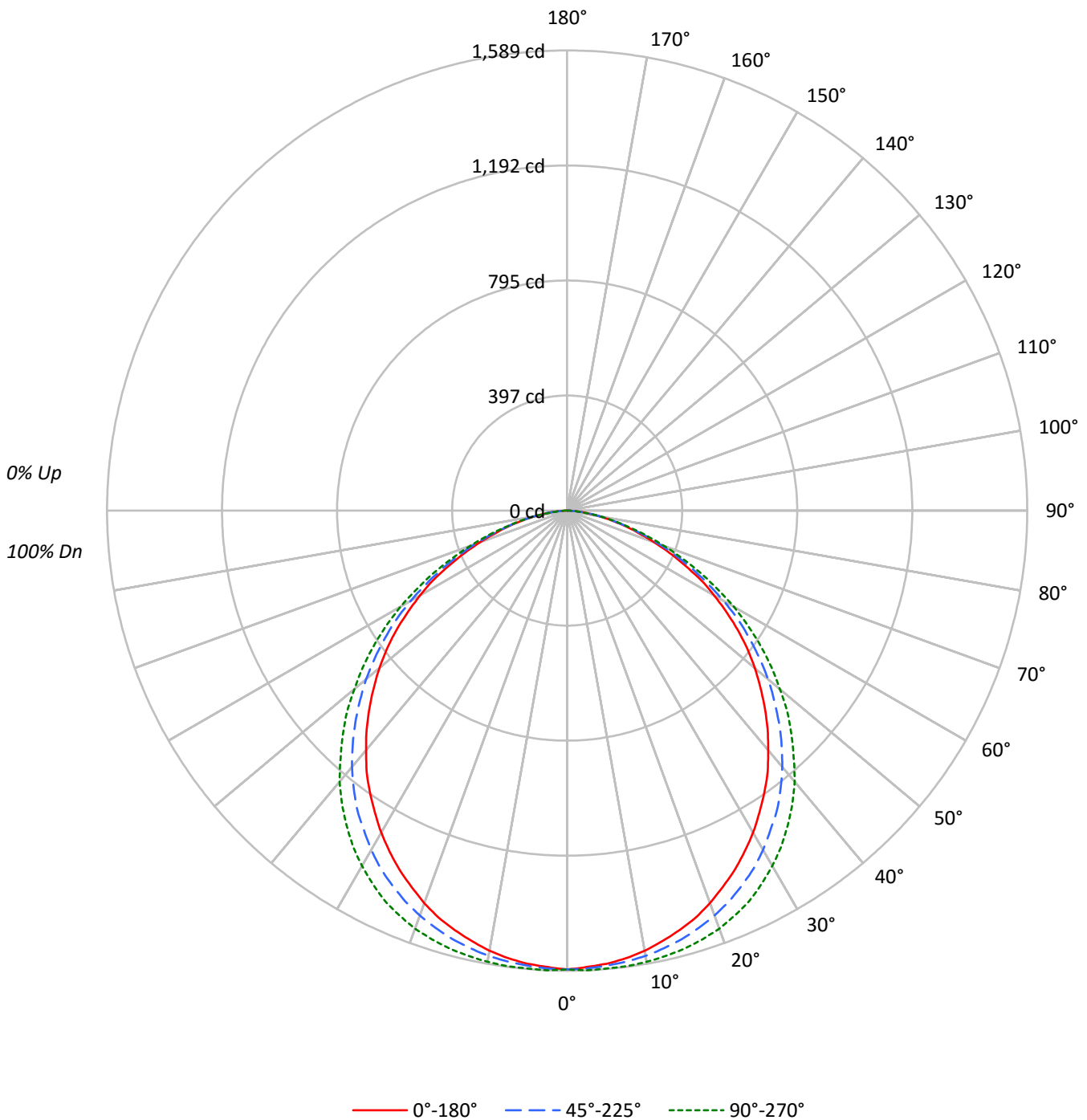
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4264	4264	4264
5°	4243	4262	4286
10°	4217	4267	4323
15°	4178	4267	4363
20°	4130	4262	4399
25°	4064	4241	4419
30°	3990	4204	4403
35°	3902	4150	4362
40°	3794	4060	4293
45°	3674	3935	4171
50°	3542	3792	4013
55°	3378	3604	3830
60°	3159	3357	3579
65°	2862	3037	3227
70°	2526	2652	2796
75°	2170	2217	2312
80°	1742	1777	1812
85°	1275	1133	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	3.5
10°-20°	432.5	10.2
20°-30°	657.9	15.4
30°-40°	787.1	18.5
40°-50°	795.7	18.7
50°-60°	684.8	16.1
60°-70°	472.8	11.1
70°-80°	229.2	5.4
80°-90°	49.7	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°	1240.6	29.1
0°-40°	2027.7	47.6
0°-60°	3508.2	82.4
0°-90°	4260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1571	1573	1578	1584	1587	149
15°	1500	1509	1532	1555	1566	423
25°	1369	1385	1428	1472	1488	630
35°	1188	1208	1263	1309	1328	742
45°	965	984	1034	1078	1096	745
55°	720	732	768	803	816	642
65°	449	456	477	498	507	447
75°	209	204	213	220	222	221
85°	41	41	37	37	37	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.5	1584.5	1584.5	1584.5	1584.5
2.5°	1577.6	1577.6	1582.2	1586.8	1589.1
5°	1570.7	1573.0	1577.6	1584.5	1586.8
7.5°	1559.2	1561.5	1570.7	1582.2	1586.8
10°	1543.2	1547.8	1561.5	1575.3	1582.2
12.5°	1522.6	1531.7	1547.8	1566.1	1575.3
15°	1499.6	1508.8	1531.7	1554.7	1566.1
17.5°	1474.4	1483.6	1511.1	1540.9	1552.4
20°	1442.3	1456.1	1488.2	1522.6	1536.3
22.5°	1405.6	1424.0	1460.6	1497.3	1513.4
25°	1368.9	1385.0	1428.5	1472.1	1488.2
27.5°	1327.7	1346.0	1394.1	1437.7	1453.8
30°	1284.1	1302.4	1352.9	1401.0	1417.1
32.5°	1235.9	1258.9	1307.0	1357.5	1375.8
35°	1187.8	1208.4	1263.4	1309.3	1327.7
37.5°	1137.3	1155.7	1210.7	1258.9	1277.2
40°	1080.0	1100.6	1155.7	1203.8	1222.2
42.5°	1025.0	1045.6	1096.1	1141.9	1158.0
45°	965.4	983.7	1034.1	1077.7	1096.1
47.5°	905.7	926.4	969.9	1013.5	1031.9
50°	846.1	862.2	905.7	947.0	958.5
52.5°	784.2	798.0	836.9	873.6	889.7
55°	720.0	731.5	768.2	802.6	816.3
57.5°	651.2	665.0	699.4	724.6	740.6
60°	587.0	593.9	623.7	648.9	665.0
62.5°	522.8	525.1	548.0	573.3	582.4
65°	449.4	456.3	476.9	497.6	506.8
67.5°	382.9	389.8	405.9	421.9	428.8
70°	321.0	321.0	337.1	348.5	355.4
72.5°	259.1	261.4	272.9	279.7	286.6
75°	208.7	204.1	213.2	220.1	222.4
77.5°	155.9	153.6	160.5	162.8	167.4
80°	112.4	112.4	114.7	116.9	116.9
82.5°	73.4	73.4	75.7	71.1	68.8
85°	41.3	41.3	36.7	36.7	36.7
87.5°	13.8	13.8	13.8	16.1	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)