

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: P298329

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298329
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-40L83050-LD5-UNV-22-T1-W2A-5000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4244.0 lumens
Efficiency: N/A
Efficacy: 125.9 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

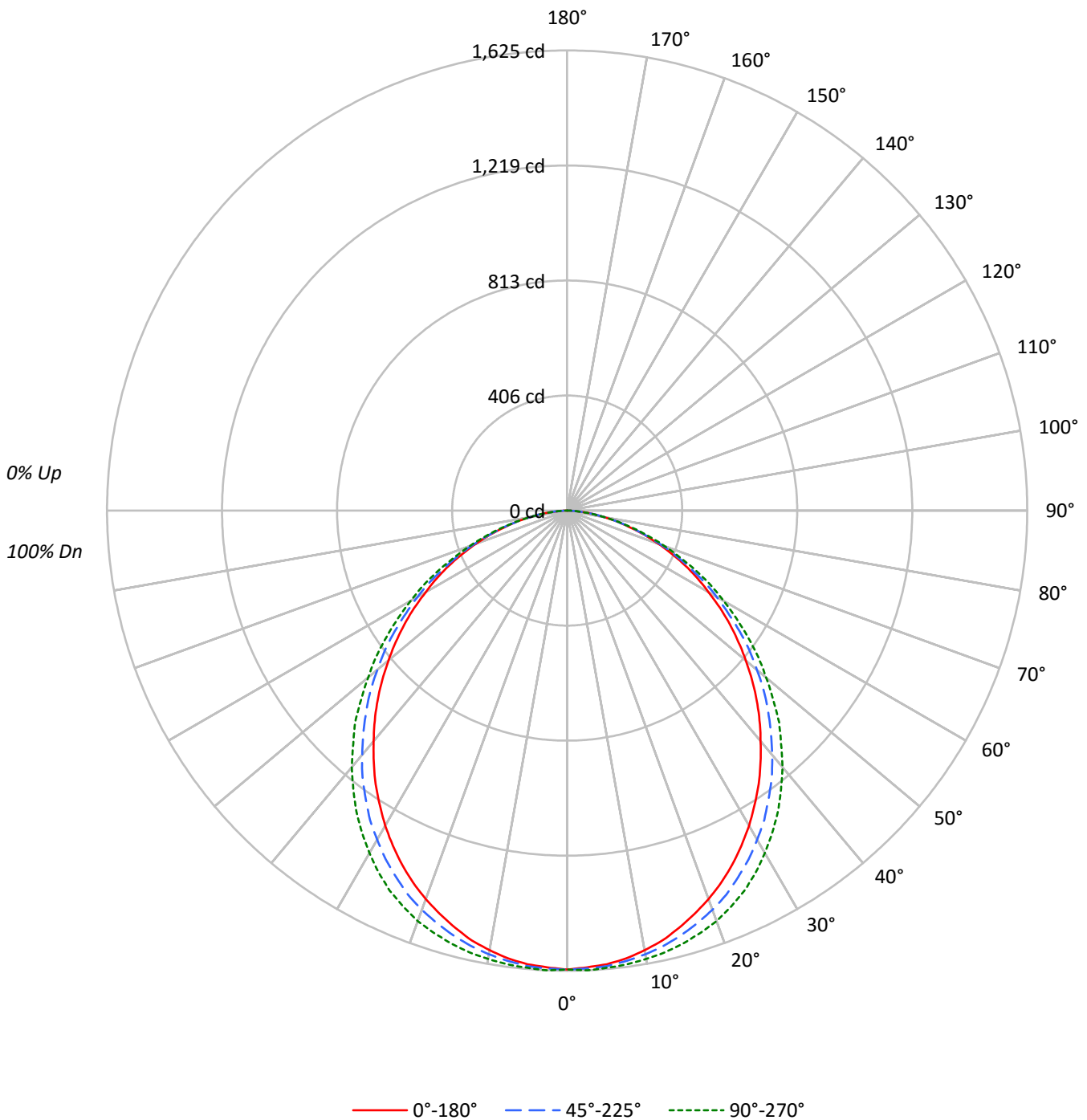
Input Watts (W): 33.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298329

CATALOG NUMBER: D3X-WO-40L83050-LD5-UNV-22-T1-W2A-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P298329

CATALOG NUMBER: D3X-WO-40L83050-LD5-UNV-22-T1-W2A-5000K

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°	4361	4361	4361
5°	4344	4361	4378
10°	4307	4348	4394
15°	4250	4327	4409
20°	4181	4296	4418
25°	4097	4241	4398
30°	3992	4169	4340
35°	3873	4075	4262
40°	3734	3956	4157
45°	3603	3820	4029
50°	3450	3662	3839
55°	3291	3490	3658
60°	3105	3287	3435
65°	2933	3041	3189
70°	2693	2777	2877
75°	2394	2461	2527
80°	2063	2030	2030
85°	1565	1436	1306



TEST NUMBER: P298329

CATALOG NUMBER: D3X-WO-40L83050-LD5-UNV-22-T1-W2A-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	3.6
10°-20°	438.2	10.3
20°-30°	658.0	15.5
30°-40°	774.4	18.2
40°-50°	772.4	18.2
50°-60°	662.8	15.6
60°-70°	474.7	11.2
70°-80°	251.4	5.9
80°-90°	58.8	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°	1249.5	29.4
0°-40°	2023.9	47.7
0°-60°	3459.1	81.5
0°-90°	4244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1608	1608	1614	1619	1621	153
15°	1526	1532	1553	1574	1583	430
25°	1380	1392	1428	1464	1481	635
35°	1179	1194	1240	1283	1297	737
45°	947	962	1004	1040	1059	730
55°	702	712	744	769	780	627
65°	461	463	478	497	501	455
75°	230	230	237	241	243	247
85°	51	49	46	42	42	61
90°	0	0	0	0	0	



TEST NUMBER: P298329

CATALOG NUMBER: D3X-WO-40L83050-LD5-UNV-22-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1614.4	1614.4	1618.6	1622.9	1625.0
5°	1608.1	1608.1	1614.4	1618.6	1620.7
7.5°	1595.4	1595.4	1603.8	1612.3	1616.5
10°	1576.4	1580.6	1591.2	1603.8	1608.1
12.5°	1555.2	1559.5	1574.3	1591.2	1597.5
15°	1525.7	1532.0	1553.1	1574.3	1582.7
17.5°	1494.0	1502.4	1527.8	1553.1	1563.7
20°	1460.1	1468.6	1500.3	1529.9	1542.6
22.5°	1422.1	1432.7	1468.6	1500.3	1513.0
25°	1379.9	1392.5	1428.5	1464.4	1481.3
27.5°	1333.4	1348.2	1388.3	1426.3	1441.1
30°	1284.8	1301.7	1341.8	1382.0	1396.8
32.5°	1231.9	1246.7	1295.3	1333.4	1348.2
35°	1179.1	1193.9	1240.4	1282.6	1297.4
37.5°	1122.1	1141.1	1187.6	1225.6	1240.4
40°	1062.9	1081.9	1126.3	1170.7	1183.3
42.5°	1005.8	1022.7	1065.0	1105.1	1117.8
45°	946.7	961.5	1003.7	1039.6	1058.7
47.5°	885.4	900.2	942.4	976.3	986.8
50°	824.1	838.9	874.8	904.4	917.1
52.5°	762.8	777.6	811.4	838.9	851.6
55°	701.5	712.1	743.8	769.2	779.7
57.5°	640.3	648.7	674.1	701.5	707.9
60°	576.9	587.4	610.7	629.7	638.2
62.5°	519.8	524.0	545.2	562.1	572.6
65°	460.7	462.8	477.6	496.6	500.8
67.5°	399.4	401.5	416.3	426.8	431.1
70°	342.3	342.3	352.9	361.3	365.6
72.5°	287.4	285.3	291.6	300.1	304.3
75°	230.3	230.3	236.7	240.9	243.0
77.5°	181.7	177.5	181.7	186.0	186.0
80°	133.1	131.0	131.0	133.1	131.0
82.5°	90.9	88.8	90.9	86.6	84.5
85°	50.7	48.6	46.5	42.3	42.3
87.5°	16.9	14.8	14.8	16.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)