

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: P298416

Luminaire Tested: **D3X-WO-44L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298416
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-44L93050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

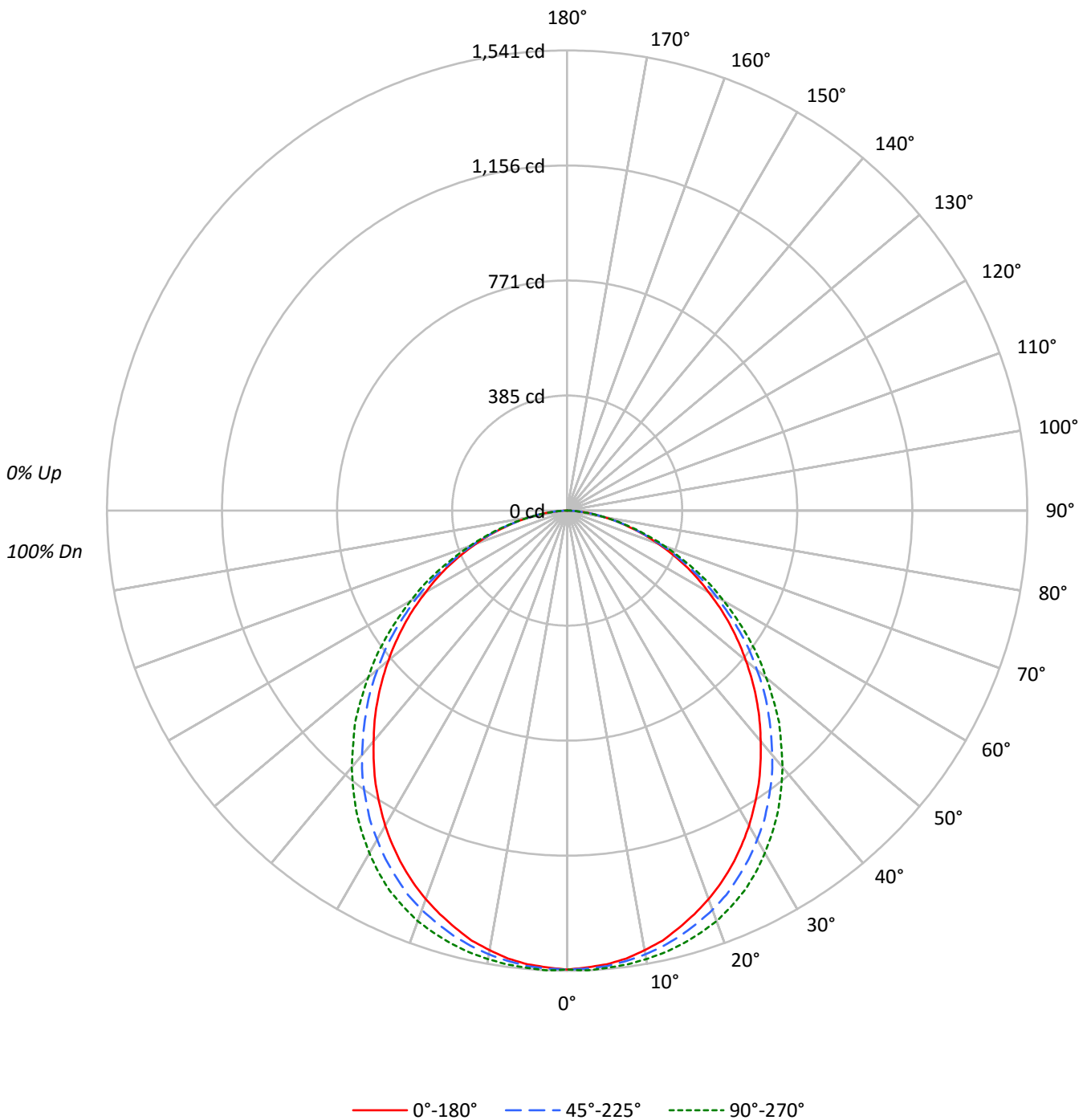
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4136	4136	4136
5°	4120	4136	4152
10°	4085	4124	4167
15°	4031	4104	4182
20°	3966	4075	4190
25°	3885	4022	4171
30°	3786	3954	4116
35°	3674	3865	4042
40°	3541	3752	3942
45°	3417	3623	3821
50°	3272	3473	3641
55°	3121	3309	3469
60°	2944	3117	3257
65°	2782	2884	3025
70°	2555	2633	2728
75°	2271	2334	2397
80°	1957	1926	1926
85°	1485	1362	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.6
10°-20°	415.6	10.3
20°-30°	624.0	15.5
30°-40°	734.4	18.2
40°-50°	732.5	18.2
50°-60°	628.6	15.6
60°-70°	450.2	11.2
70°-80°	238.4	5.9
80°-90°	55.8	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°	1185.0	29.4
0°-40°	1919.5	47.7
0°-60°	3280.6	81.5
0°-90°	4025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1525	1525	1531	1535	1537	145
15°	1447	1453	1473	1493	1501	408
25°	1309	1321	1355	1389	1405	602
35°	1118	1132	1176	1216	1230	699
45°	898	912	952	986	1004	692
55°	665	675	705	730	740	595
65°	437	439	453	471	475	432
75°	218	218	224	228	230	234
85°	48	46	44	40	40	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.1	1537.1	1537.1	1537.1	1537.1
2.5°	1531.1	1531.1	1535.1	1539.1	1541.1
5°	1525.1	1525.1	1531.1	1535.1	1537.1
7.5°	1513.1	1513.1	1521.1	1529.1	1533.1
10°	1495.0	1499.0	1509.1	1521.1	1525.1
12.5°	1475.0	1479.0	1493.0	1509.1	1515.1
15°	1446.9	1452.9	1473.0	1493.0	1501.0
17.5°	1416.9	1424.9	1448.9	1473.0	1483.0
20°	1384.8	1392.8	1422.9	1450.9	1463.0
22.5°	1348.7	1358.8	1392.8	1422.9	1434.9
25°	1308.6	1320.7	1354.7	1388.8	1404.8
27.5°	1264.6	1278.6	1316.7	1352.7	1366.8
30°	1218.5	1234.5	1272.6	1310.7	1324.7
32.5°	1168.4	1182.4	1228.5	1264.6	1278.6
35°	1118.3	1132.3	1176.4	1216.5	1230.5
37.5°	1064.2	1082.2	1126.3	1162.4	1176.4
40°	1008.0	1026.1	1068.2	1110.2	1122.3
42.5°	953.9	970.0	1010.0	1048.1	1060.1
45°	897.8	911.8	951.9	986.0	1004.0
47.5°	839.7	853.7	893.8	925.9	935.9
50°	781.6	795.6	829.7	857.7	869.8
52.5°	723.5	737.5	769.6	795.6	807.6
55°	665.3	675.4	705.4	729.5	739.5
57.5°	607.2	615.2	639.3	665.3	671.4
60°	547.1	557.1	579.2	597.2	605.2
62.5°	493.0	497.0	517.0	533.1	543.1
65°	436.9	438.9	452.9	471.0	475.0
67.5°	378.8	380.8	394.8	404.8	408.8
70°	324.7	324.7	334.7	342.7	346.7
72.5°	272.6	270.5	276.6	284.6	288.6
75°	218.4	218.4	224.5	228.5	230.5
77.5°	172.3	168.3	172.3	176.4	176.4
80°	126.3	124.3	124.3	126.3	124.3
82.5°	86.2	84.2	86.2	82.2	80.2
85°	48.1	46.1	44.1	40.1	40.1
87.5°	16.0	14.0	14.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)