

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: P298417

Luminaire Tested: **D3X-WO-44L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298417
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-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

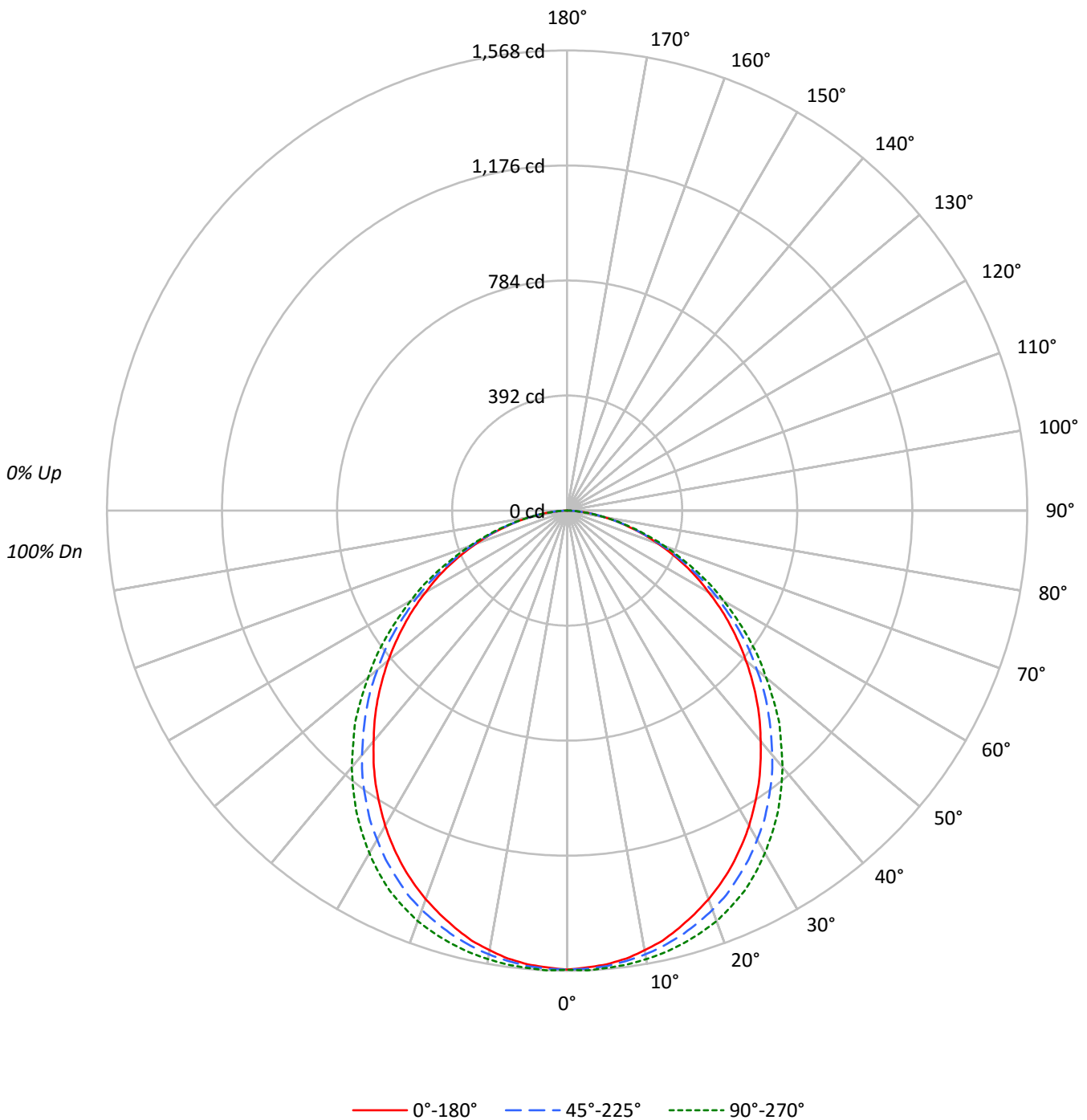
Input Watts (W): 37.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4209	4209	4209
5°	4192	4209	4225
10°	4157	4196	4241
15°	4102	4176	4255
20°	4035	4147	4263
25°	3954	4093	4245
30°	3853	4024	4189
35°	3738	3933	4114
40°	3603	3818	4012
45°	3477	3687	3888
50°	3330	3535	3705
55°	3177	3368	3530
60°	2997	3172	3315
65°	2831	2935	3077
70°	2600	2680	2776
75°	2311	2375	2438
80°	1991	1959	1959
85°	1510	1386	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.6
10°-20°	422.9	10.3
20°-30°	635.0	15.5
30°-40°	747.4	18.2
40°-50°	745.5	18.2
50°-60°	639.7	15.6
60°-70°	458.2	11.2
70°-80°	242.6	5.9
80°-90°	56.7	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°	1206.0	29.4
0°-40°	1953.3	47.7
0°-60°	3338.5	81.5
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1552	1552	1558	1562	1564	147
15°	1472	1479	1499	1519	1528	415
25°	1332	1344	1379	1413	1430	613
35°	1138	1152	1197	1238	1252	711
45°	914	928	969	1003	1022	704
55°	677	687	718	742	752	605
65°	445	447	461	479	483	439
75°	222	222	228	232	234	238
85°	49	47	45	41	41	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.2	1564.2	1564.2	1564.2	1564.2
2.5°	1558.1	1558.1	1562.2	1566.3	1568.3
5°	1552.0	1552.0	1558.1	1562.2	1564.2
7.5°	1539.8	1539.8	1547.9	1556.1	1560.1
10°	1521.4	1525.5	1535.7	1547.9	1552.0
12.5°	1501.0	1505.1	1519.4	1535.7	1541.8
15°	1472.5	1478.6	1499.0	1519.4	1527.5
17.5°	1441.9	1450.0	1474.5	1499.0	1509.2
20°	1409.2	1417.4	1448.0	1476.5	1488.8
22.5°	1372.5	1382.7	1417.4	1448.0	1460.2
25°	1331.7	1344.0	1378.6	1413.3	1429.6
27.5°	1286.9	1301.1	1339.9	1376.6	1390.9
30°	1240.0	1256.3	1295.0	1333.8	1348.0
32.5°	1189.0	1203.3	1250.2	1286.9	1301.1
35°	1138.0	1152.3	1197.1	1237.9	1252.2
37.5°	1082.9	1101.3	1146.1	1182.9	1197.1
40°	1025.8	1044.2	1087.0	1129.8	1142.1
42.5°	970.8	987.1	1027.9	1066.6	1078.8
45°	913.7	927.9	968.7	1003.4	1021.7
47.5°	854.5	868.8	909.6	942.2	952.4
50°	795.4	809.6	844.3	872.9	885.1
52.5°	736.2	750.5	783.1	809.6	821.9
55°	677.1	687.3	717.9	742.3	752.5
57.5°	617.9	626.1	650.6	677.1	683.2
60°	556.8	567.0	589.4	607.7	615.9
62.5°	501.7	505.8	526.2	542.5	552.7
65°	444.6	446.6	460.9	479.3	483.3
67.5°	385.4	387.5	401.8	412.0	416.0
70°	330.4	330.4	340.6	348.7	352.8
72.5°	277.4	275.3	281.4	289.6	293.7
75°	222.3	222.3	228.4	232.5	234.5
77.5°	175.4	171.3	175.4	179.5	179.5
80°	128.5	126.4	126.4	128.5	126.4
82.5°	87.7	85.7	87.7	83.6	81.6
85°	48.9	46.9	44.9	40.8	40.8
87.5°	16.3	14.3	14.3	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)