

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: P298410

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298410
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-40L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 104.1 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

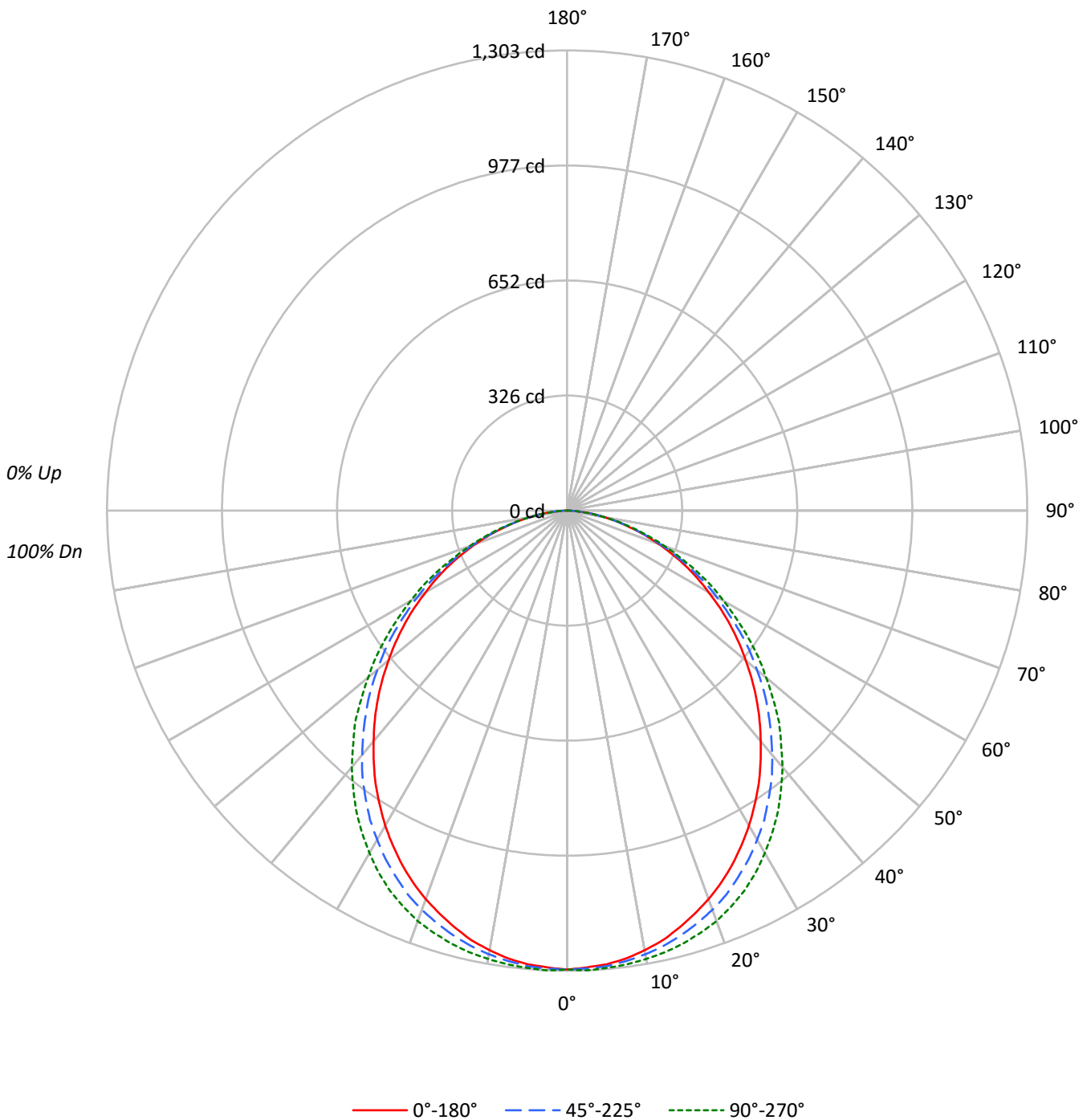
Input Watts (W): 32.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3497	3497	3497
5°	3483	3497	3511
10°	3454	3486	3523
15°	3408	3470	3536
20°	3353	3445	3542
25°	3285	3401	3526
30°	3201	3343	3480
35°	3106	3267	3417
40°	2994	3172	3333
45°	2889	3063	3231
50°	2766	2937	3079
55°	2639	2798	2933
60°	2490	2636	2754
65°	2352	2438	2557
70°	2160	2227	2306
75°	1920	1973	2026
80°	1654	1629	1629
85°	1257	1152	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.6
10°-20°	351.4	10.3
20°-30°	527.6	15.5
30°-40°	620.9	18.2
40°-50°	619.3	18.2
50°-60°	531.5	15.6
60°-70°	380.6	11.2
70°-80°	201.6	5.9
80°-90°	47.2	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°	1001.9	29.4
0°-40°	1622.8	47.7
0°-60°	2773.6	81.5
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1289	1289	1294	1298	1300	122
15°	1223	1228	1245	1262	1269	345
25°	1106	1117	1145	1174	1188	509
35°	946	957	995	1028	1040	591
45°	759	771	805	834	849	585
55°	562	571	596	617	625	503
65°	369	371	383	398	402	365
75°	185	185	190	193	195	198
85°	41	39	37	34	34	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.6	1299.6	1299.6	1299.6	1299.6
2.5°	1294.5	1294.5	1297.9	1301.3	1303.0
5°	1289.4	1289.4	1294.5	1297.9	1299.6
7.5°	1279.2	1279.2	1286.0	1292.8	1296.2
10°	1264.0	1267.4	1275.9	1286.0	1289.4
12.5°	1247.0	1250.4	1262.3	1275.9	1280.9
15°	1223.3	1228.4	1245.4	1262.3	1269.1
17.5°	1197.9	1204.7	1225.0	1245.4	1253.8
20°	1170.8	1177.6	1203.0	1226.7	1236.9
22.5°	1140.3	1148.8	1177.6	1203.0	1213.2
25°	1106.4	1116.6	1145.4	1174.2	1187.7
27.5°	1069.1	1081.0	1113.2	1143.7	1155.6
30°	1030.2	1043.7	1075.9	1108.1	1120.0
32.5°	987.8	999.7	1038.6	1069.1	1081.0
35°	945.5	957.3	994.6	1028.5	1040.3
37.5°	899.7	915.0	952.2	982.7	994.6
40°	852.3	867.5	903.1	938.7	948.8
42.5°	806.5	820.1	854.0	886.2	896.3
45°	759.1	770.9	804.8	833.6	848.9
47.5°	709.9	721.8	755.7	782.8	791.3
50°	660.8	672.7	701.5	725.2	735.4
52.5°	611.7	623.5	650.6	672.7	682.8
55°	562.5	571.0	596.4	616.7	625.2
57.5°	513.4	520.2	540.5	562.5	567.6
60°	462.6	471.0	489.7	504.9	511.7
62.5°	416.8	420.2	437.1	450.7	459.2
65°	369.4	371.1	382.9	398.2	401.6
67.5°	320.2	321.9	333.8	342.3	345.6
70°	274.5	274.5	283.0	289.7	293.1
72.5°	230.4	228.7	233.8	240.6	244.0
75°	184.7	184.7	189.8	193.2	194.9
77.5°	145.7	142.3	145.7	149.1	149.1
80°	106.7	105.1	105.1	106.7	105.1
82.5°	72.9	71.2	72.9	69.5	67.8
85°	40.7	39.0	37.3	33.9	33.9
87.5°	13.6	11.9	11.9	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)