

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: P298409

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298409
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3115.0 lumens
Efficiency: N/A
Efficacy: 95.0 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

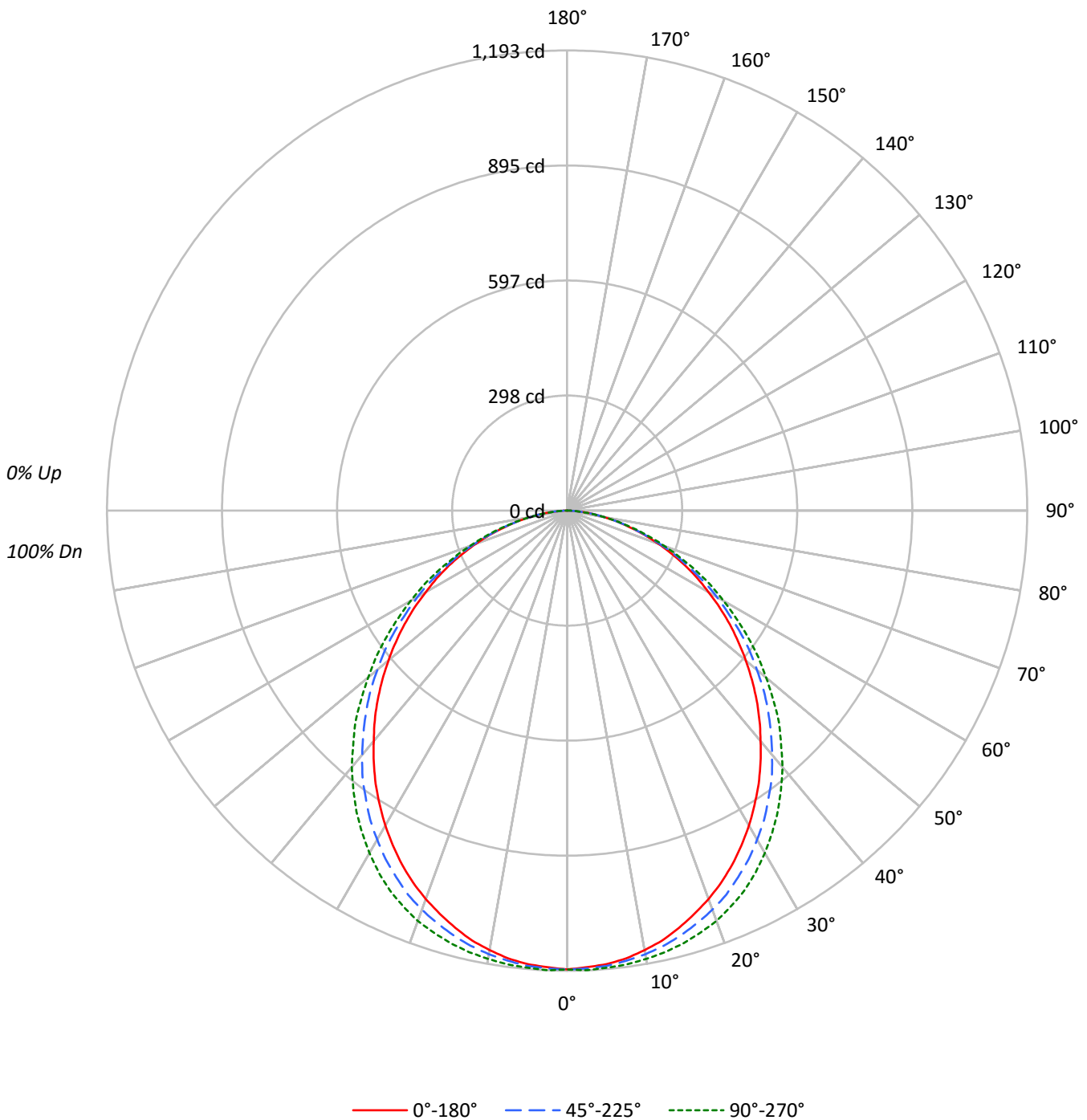
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3201	3201	3201
5°	3188	3201	3213
10°	3161	3191	3225
15°	3120	3176	3236
20°	3069	3153	3242
25°	3007	3113	3228
30°	2930	3060	3186
35°	2843	2991	3128
40°	2740	2904	3051
45°	2644	2804	2957
50°	2532	2688	2818
55°	2416	2561	2685
60°	2279	2412	2521
65°	2153	2232	2341
70°	1977	2038	2111
75°	1758	1806	1855
80°	1514	1491	1491
85°	1149	1053	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.6
10°-20°	321.6	10.3
20°-30°	482.9	15.5
30°-40°	568.4	18.2
40°-50°	566.9	18.2
50°-60°	486.5	15.6
60°-70°	348.4	11.2
70°-80°	184.5	5.9
80°-90°	43.2	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°	917.1	29.4
0°-40°	1485.5	47.7
0°-60°	2538.9	81.5
0°-90°	3115.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1180	1180	1185	1188	1190	112
15°	1120	1124	1140	1156	1162	316
25°	1013	1022	1048	1075	1087	466
35°	865	876	910	941	952	541
45°	695	706	737	763	777	536
55°	515	523	546	565	572	460
65°	338	340	350	364	368	334
75°	169	169	174	177	178	181
85°	37	36	34	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.6	1189.6	1189.6	1189.6	<i>1189.6</i>
2.5°	<i>1184.9</i>	<i>1184.9</i>	<i>1188.0</i>	<i>1191.1</i>	<i>1192.7</i>
5°	1180.3	1180.3	1184.9	1188.0	<i>1189.6</i>
7.5°	1171.0	1171.0	1177.2	1183.4	<i>1186.5</i>
10°	1157.0	1160.1	1167.9	1177.2	<i>1180.3</i>
12.5°	1141.5	1144.6	1155.5	1167.9	<i>1172.5</i>
15°	1119.8	1124.4	1140.0	1155.5	<i>1161.7</i>
17.5°	1096.5	1102.7	1121.3	1140.0	<i>1147.7</i>
20°	1071.7	1077.9	1101.2	1122.9	<i>1132.2</i>
22.5°	1043.8	1051.6	1077.9	1101.2	<i>1110.5</i>
25°	1012.8	1022.1	1048.5	1074.8	<i>1087.2</i>
27.5°	978.7	989.5	1019.0	1046.9	<i>1057.8</i>
30°	943.0	955.4	984.9	1014.3	<i>1025.2</i>
32.5°	904.2	915.1	950.7	978.7	<i>989.5</i>
35°	865.4	876.3	910.4	941.4	<i>952.3</i>
37.5°	823.6	837.5	871.6	899.6	<i>910.4</i>
40°	780.1	794.1	826.7	859.2	<i>868.5</i>
42.5°	738.3	750.7	781.7	811.2	<i>820.5</i>
45°	694.8	705.7	736.7	763.1	<i>777.0</i>
47.5°	649.9	660.7	691.7	716.5	<i>724.3</i>
50°	604.9	615.7	642.1	663.8	<i>673.1</i>
52.5°	559.9	570.8	595.6	615.7	<i>625.0</i>
55°	514.9	522.7	545.9	564.6	<i>572.3</i>
57.5°	469.9	476.1	494.8	514.9	<i>519.6</i>
60°	423.4	431.2	448.2	462.2	<i>468.4</i>
62.5°	381.5	384.6	400.1	412.6	<i>420.3</i>
65°	338.1	339.7	350.5	364.5	<i>367.6</i>
67.5°	293.1	294.7	305.5	313.3	<i>316.4</i>
70°	251.3	251.3	259.0	265.2	<i>268.3</i>
72.5°	210.9	209.4	214.0	220.2	<i>223.3</i>
75°	169.1	169.1	173.7	176.8	<i>178.4</i>
77.5°	133.4	130.3	133.4	136.5	<i>136.5</i>
80°	97.7	96.2	96.2	97.7	<i>96.2</i>
82.5°	66.7	65.1	66.7	63.6	<i>62.0</i>
85°	37.2	35.7	34.1	31.0	<i>31.0</i>
87.5°	12.4	10.9	10.9	12.4	<i>12.4</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)