

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: P296860

Luminaire Tested: **D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3362.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

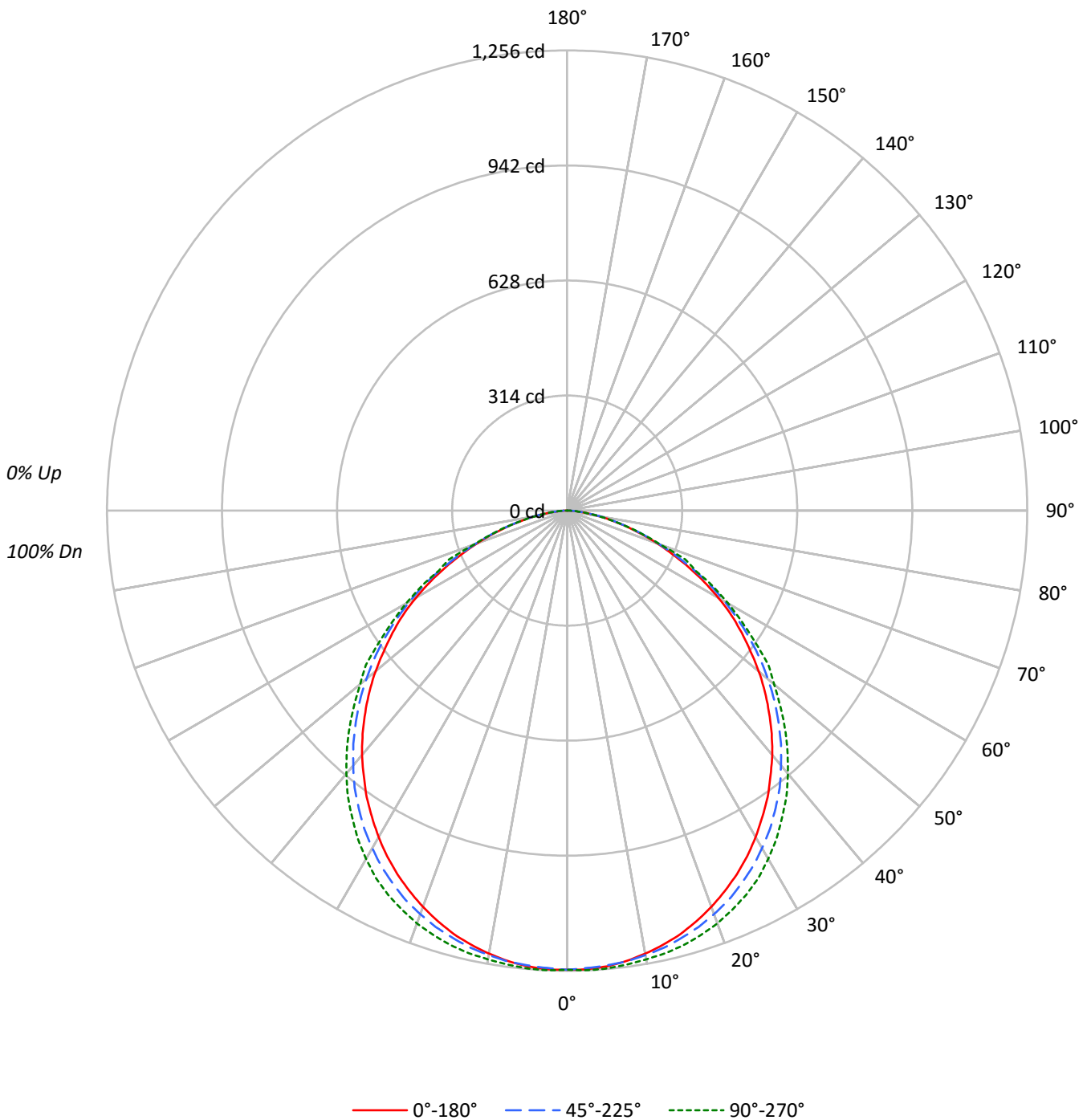
Input Watts (W): 29.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296860

CATALOG NUMBER: D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P296860

CATALOG NUMBER: D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3500K

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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1686	1686	1686
5°	1686	1683	1694
10°	1678	1683	1699
15°	1667	1682	1711
20°	1648	1679	1717
25°	1626	1669	1717
30°	1599	1653	1705
35°	1567	1629	1680
40°	1530	1595	1646
45°	1483	1552	1600
50°	1429	1497	1543
55°	1364	1426	1469
60°	1285	1334	1366
65°	1167	1206	1229
70°	1025	1049	1063
75°	866	878	884
80°	692	701	683
85°	466	485	466



TEST NUMBER: P296860

CATALOG NUMBER: D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.5
10°-20°	341.6	10.2
20°-30°	518.3	15.4
30°-40°	618.7	18.4
40°-50°	626.4	18.6
50°-60°	541.5	16.1
60°-70°	375.3	11.2
70°-80°	181.6	5.4
80°-90°	39.9	1.2
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°	978.6	29.1
0°-40°	1597.4	47.5
0°-60°	2765.2	82.2
0°-90°	3362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3362.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1248	1247	1246	1252	1254	119
15°	1197	1199	1208	1222	1228	337
25°	1095	1102	1124	1147	1157	504
35°	954	963	992	1017	1023	596
45°	779	790	815	836	841	601
55°	581	588	608	633	626	520
65°	367	370	379	385	386	363
75°	166	168	169	168	170	179
85°	30	33	31	30	30	39
90°	0	0	0	0	0	



TEST NUMBER: P296860

CATALOG NUMBER: D3X-WD-42L93050-LD5-UNV-24-T1-W2A-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.3	1253.3	1253.3	1253.3	1253.3
2.5°	1253.3	1252.1	1249.7	1253.3	1255.7
5°	1248.5	1247.3	1246.1	1252.1	1254.5
7.5°	1240.1	1240.1	1241.3	1247.3	1249.7
10°	1228.0	1229.2	1231.6	1241.3	1243.7
12.5°	1213.5	1215.9	1222.0	1232.8	1237.6
15°	1196.6	1199.0	1207.5	1222.0	1228.0
17.5°	1174.9	1179.7	1191.8	1208.7	1214.7
20°	1150.8	1156.8	1172.5	1191.8	1199.0
22.5°	1124.3	1130.3	1150.8	1171.3	1178.5
25°	1095.3	1102.5	1124.3	1147.2	1156.8
27.5°	1063.9	1072.4	1096.5	1120.6	1130.3
30°	1029.0	1038.6	1063.9	1089.3	1097.7
32.5°	991.6	1001.2	1030.2	1054.3	1062.7
35°	954.2	962.6	991.6	1016.9	1022.9
37.5°	912.0	921.6	953.0	974.7	983.1
40°	870.9	880.6	908.3	930.0	937.3
42.5°	826.3	836.0	863.7	884.2	890.2
45°	779.3	790.1	815.4	836.0	840.8
47.5°	732.2	740.7	767.2	785.3	788.9
50°	682.8	691.2	715.3	733.4	737.0
52.5°	630.9	644.2	663.5	676.7	692.4
55°	581.4	587.5	608.0	633.3	626.1
57.5°	532.0	535.6	552.5	563.3	565.7
60°	477.7	482.5	495.8	501.8	507.8
62.5°	421.0	424.6	440.3	446.3	448.7
65°	366.7	370.3	378.8	384.8	386.0
67.5°	311.2	314.8	322.1	326.9	348.6
70°	260.6	263.0	266.6	276.2	270.2
72.5°	212.3	213.5	217.1	217.1	218.3
75°	166.5	167.7	168.9	167.7	170.1
77.5°	124.2	126.7	127.9	126.7	125.5
80°	89.3	91.7	90.5	88.1	88.1
82.5°	57.9	59.1	57.9	56.7	56.7
85°	30.2	32.6	31.4	30.2	30.2
87.5°	10.9	12.1	13.3	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)