

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: P296858

Luminaire Tested: **D3X-WD-36L93050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296858
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-36L93050-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3220.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

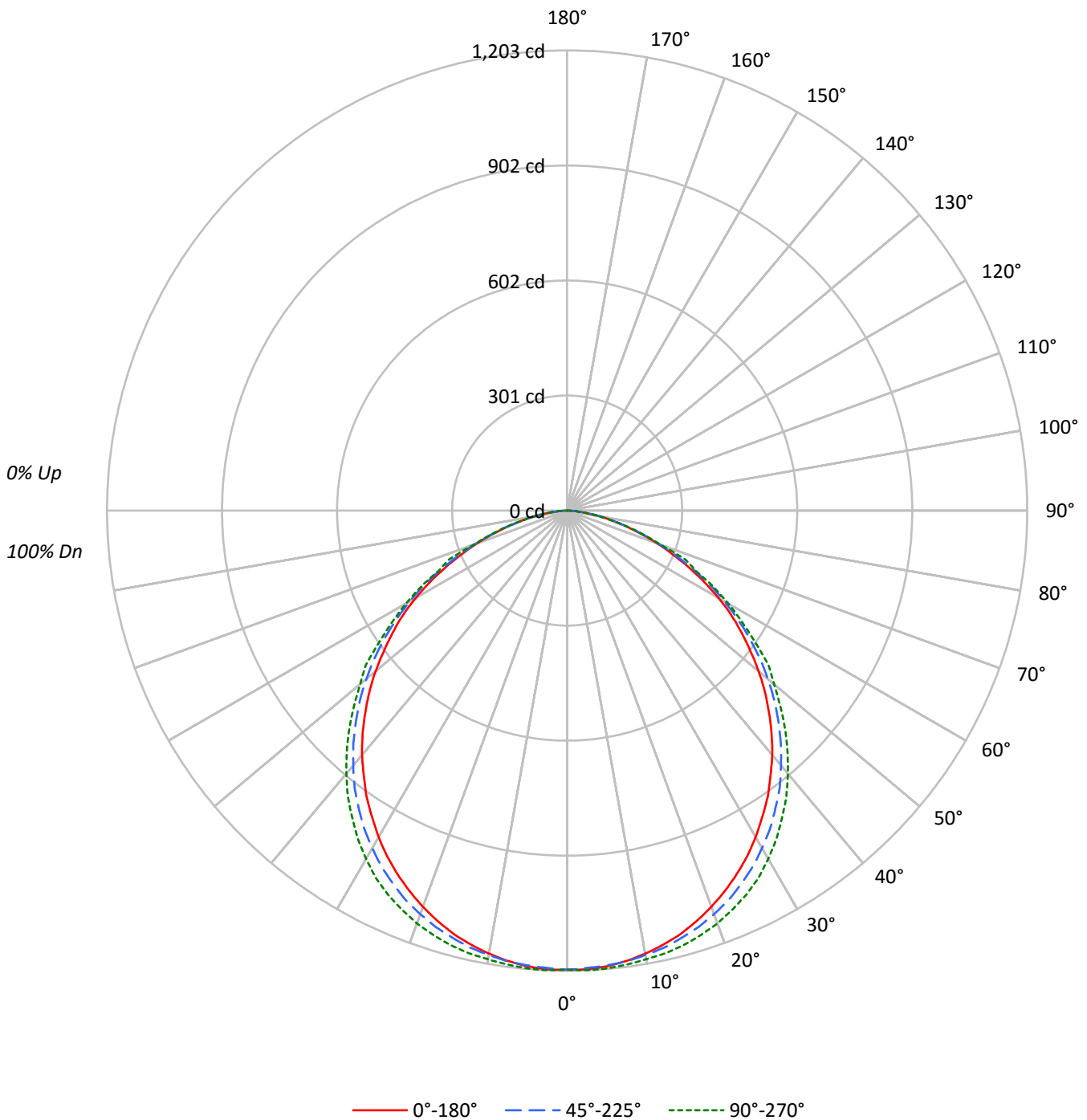
Input Watts (W): 26.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1615	1615	1615
5°	1615	1612	1623
10°	1607	1612	1627
15°	1596	1611	1638
20°	1578	1608	1644
25°	1557	1599	1645
30°	1531	1583	1633
35°	1501	1560	1609
40°	1465	1528	1577
45°	1420	1486	1532
50°	1369	1434	1478
55°	1306	1366	1407
60°	1231	1278	1309
65°	1118	1155	1177
70°	982	1004	1018
75°	829	841	847
80°	662	672	653
85°	446	463	446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.5
10°-20°	327.2	10.2
20°-30°	496.4	15.4
30°-40°	592.6	18.4
40°-50°	599.9	18.6
50°-60°	518.6	16.1
60°-70°	359.4	11.2
70°-80°	173.9	5.4
80°-90°	38.2	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°	937.3	29.1
0°-40°	1529.9	47.5
0°-60°	2648.4	82.2
0°-90°	3220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1196	1195	1194	1199	1202	114
15°	1146	1148	1156	1170	1176	323
25°	1049	1056	1077	1099	1108	483
35°	914	922	950	974	980	571
45°	746	757	781	801	805	576
55°	557	563	582	607	600	498
65°	351	355	363	369	370	348
75°	159	161	162	161	163	171
85°	29	31	30	29	29	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1200.4	1200.4	1200.4	1200.4	1200.4
2.5°	1200.4	1199.2	1196.9	1200.4	1202.7
5°	1195.8	1194.6	1193.5	1199.2	1201.5
7.5°	1187.7	1187.7	1188.8	1194.6	1196.9
10°	1176.1	1177.3	1179.6	1188.8	1191.2
12.5°	1162.3	1164.6	1170.4	1180.8	1185.4
15°	1146.1	1148.4	1156.5	1170.4	1176.1
17.5°	1125.3	1129.9	1141.5	1157.6	1163.4
20°	1102.2	1108.0	1123.0	1141.5	1148.4
22.5°	1076.8	1082.5	1102.2	1121.8	1128.8
25°	1049.0	1056.0	1076.8	1098.7	1108.0
27.5°	1019.0	1027.1	1050.2	1073.3	1082.5
30°	985.5	994.7	1019.0	1043.3	1051.4
32.5°	949.7	958.9	986.7	1009.8	1017.9
35°	913.9	922.0	949.7	973.9	979.7
37.5°	873.4	882.7	912.7	933.5	941.6
40°	834.2	843.4	870.0	890.8	897.7
42.5°	791.4	800.6	827.2	846.9	852.6
45°	746.3	756.7	781.0	800.6	805.3
47.5°	701.3	709.4	734.8	752.1	755.6
50°	653.9	662.0	685.1	702.4	705.9
52.5°	604.2	616.9	635.4	648.1	663.2
55°	556.9	562.6	582.3	606.6	599.6
57.5°	509.5	513.0	529.1	539.5	541.9
60°	457.5	462.1	474.8	480.6	486.4
62.5°	403.2	406.7	421.7	427.5	429.8
65°	351.2	354.7	362.8	368.6	369.7
67.5°	298.1	301.5	308.5	313.1	333.9
70°	249.6	251.9	255.3	264.6	258.8
72.5°	203.3	204.5	208.0	208.0	209.1
75°	159.4	160.6	161.7	160.6	162.9
77.5°	119.0	121.3	122.5	121.3	120.2
80°	85.5	87.8	86.7	84.3	84.3
82.5°	55.5	56.6	55.5	54.3	54.3
85°	28.9	31.2	30.0	28.9	28.9
87.5°	10.4	11.6	12.7	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)