

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: P296720

Luminaire Tested: **D3X-WD-42L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296720
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-42L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3956.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

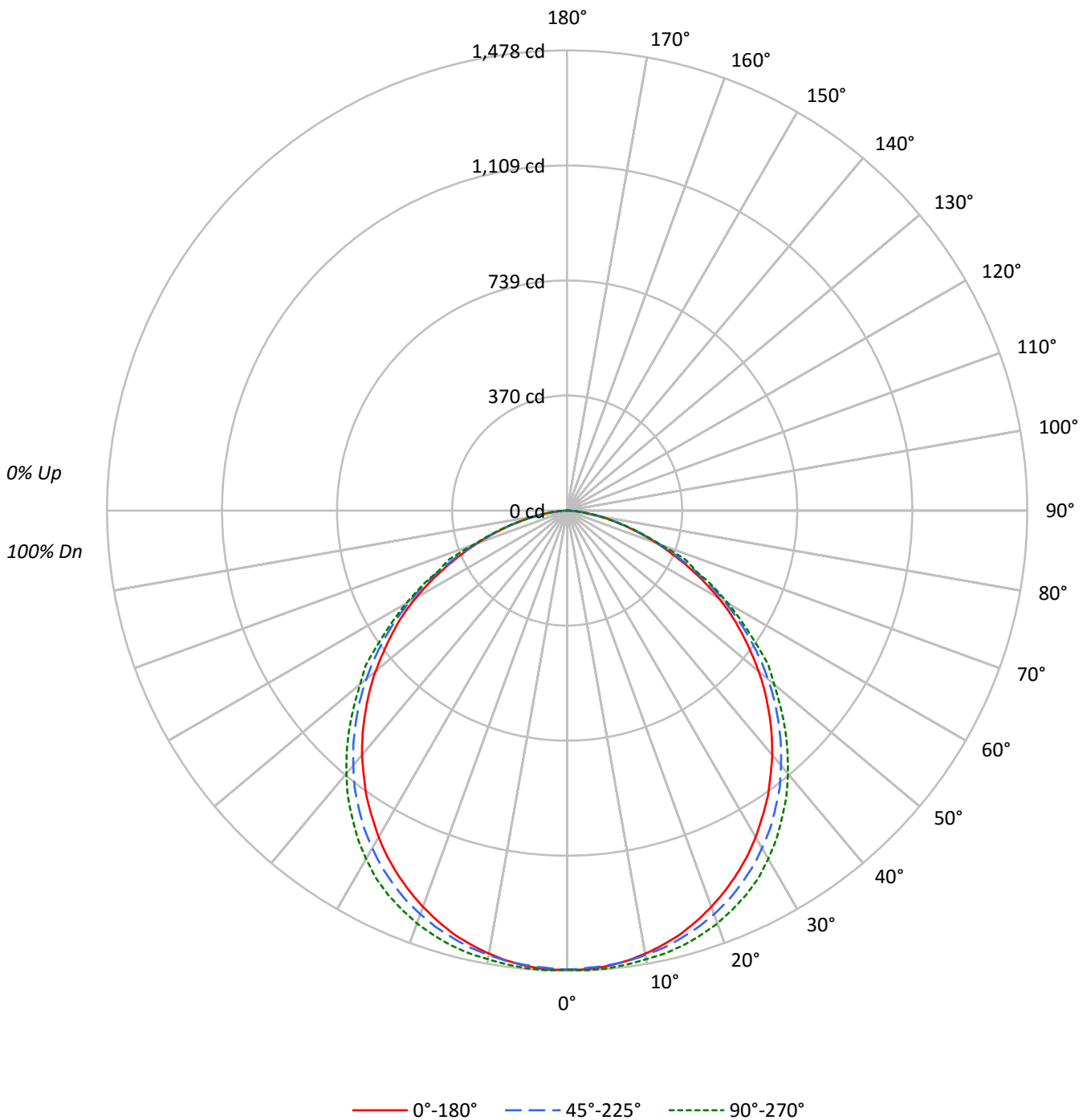
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1984	1984	1984
5°	1984	1980	1994
10°	1974	1980	1999
15°	1961	1979	2013
20°	1939	1976	2020
25°	1913	1964	2021
30°	1881	1945	2007
35°	1844	1917	1977
40°	1800	1877	1937
45°	1745	1826	1882
50°	1682	1762	1815
55°	1605	1678	1728
60°	1513	1570	1608
65°	1374	1419	1446
70°	1206	1234	1251
75°	1018	1033	1040
80°	814	825	803
85°	548	570	548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.5
10°-20°	401.9	10.2
20°-30°	609.8	15.4
30°-40°	728.1	18.4
40°-50°	737.1	18.6
50°-60°	637.1	16.1
60°-70°	441.6	11.2
70°-80°	213.6	5.4
80°-90°	47.0	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°	1151.5	29.1
0°-40°	1879.6	47.5
0°-60°	3253.8	82.2
0°-90°	3956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1469	1468	1466	1473	1476	139
15°	1408	1411	1421	1438	1445	397
25°	1289	1297	1323	1350	1361	594
35°	1123	1133	1167	1197	1204	701
45°	917	930	960	984	989	707
55°	684	691	715	745	737	611
65°	432	436	446	453	454	427
75°	196	197	199	197	200	210
85°	36	38	37	36	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.8	1474.8	1474.8	1474.8	1474.8
2.5°	1474.8	1473.3	1470.5	1474.8	1477.6
5°	1469.1	1467.7	1466.3	1473.3	1476.2
7.5°	1459.2	1459.2	1460.6	1467.7	1470.5
10°	1445.0	1446.4	1449.2	1460.6	1463.4
12.5°	1427.9	1430.8	1437.9	1450.6	1456.3
15°	1408.1	1410.9	1420.8	1437.9	1445.0
17.5°	1382.5	1388.2	1402.4	1422.3	1429.3
20°	1354.1	1361.2	1379.7	1402.4	1410.9
22.5°	1322.9	1330.0	1354.1	1378.2	1386.8
25°	1288.8	1297.3	1322.9	1349.9	1361.2
27.5°	1251.9	1261.9	1290.2	1318.6	1330.0
30°	1210.8	1222.1	1251.9	1281.7	1291.7
32.5°	1166.8	1178.1	1212.2	1240.6	1250.5
35°	1122.8	1132.7	1166.8	1196.6	1203.7
37.5°	1073.1	1084.4	1121.3	1146.9	1156.8
40°	1024.8	1036.2	1068.8	1094.4	1102.9
42.5°	972.3	983.7	1016.3	1040.4	1047.5
45°	916.9	929.7	959.5	983.7	989.3
47.5°	861.6	871.5	902.7	924.0	928.3
50°	803.4	813.3	841.7	863.0	867.3
52.5°	742.4	758.0	780.7	796.3	814.7
55°	684.2	691.3	715.4	745.2	736.7
57.5°	626.0	630.2	650.1	662.9	665.7
60°	562.1	567.8	583.4	590.5	597.6
62.5°	495.4	499.6	518.1	525.2	528.0
65°	431.5	435.8	445.7	452.8	454.2
67.5°	366.2	370.5	379.0	384.7	410.2
70°	306.6	309.4	313.7	325.0	317.9
72.5°	249.8	251.2	255.5	255.5	256.9
75°	195.9	197.3	198.7	197.3	200.1
77.5°	146.2	149.0	150.5	149.0	147.6
80°	105.0	107.9	106.5	103.6	103.6
82.5°	68.1	69.6	68.1	66.7	66.7
85°	35.5	38.3	36.9	35.5	35.5
87.5°	12.8	14.2	15.6	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)