

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: P296721

Luminaire Tested: **D3X-WD-42L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296721
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-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4153.0 lumens
Efficiency: N/A
Efficacy: 139.4 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

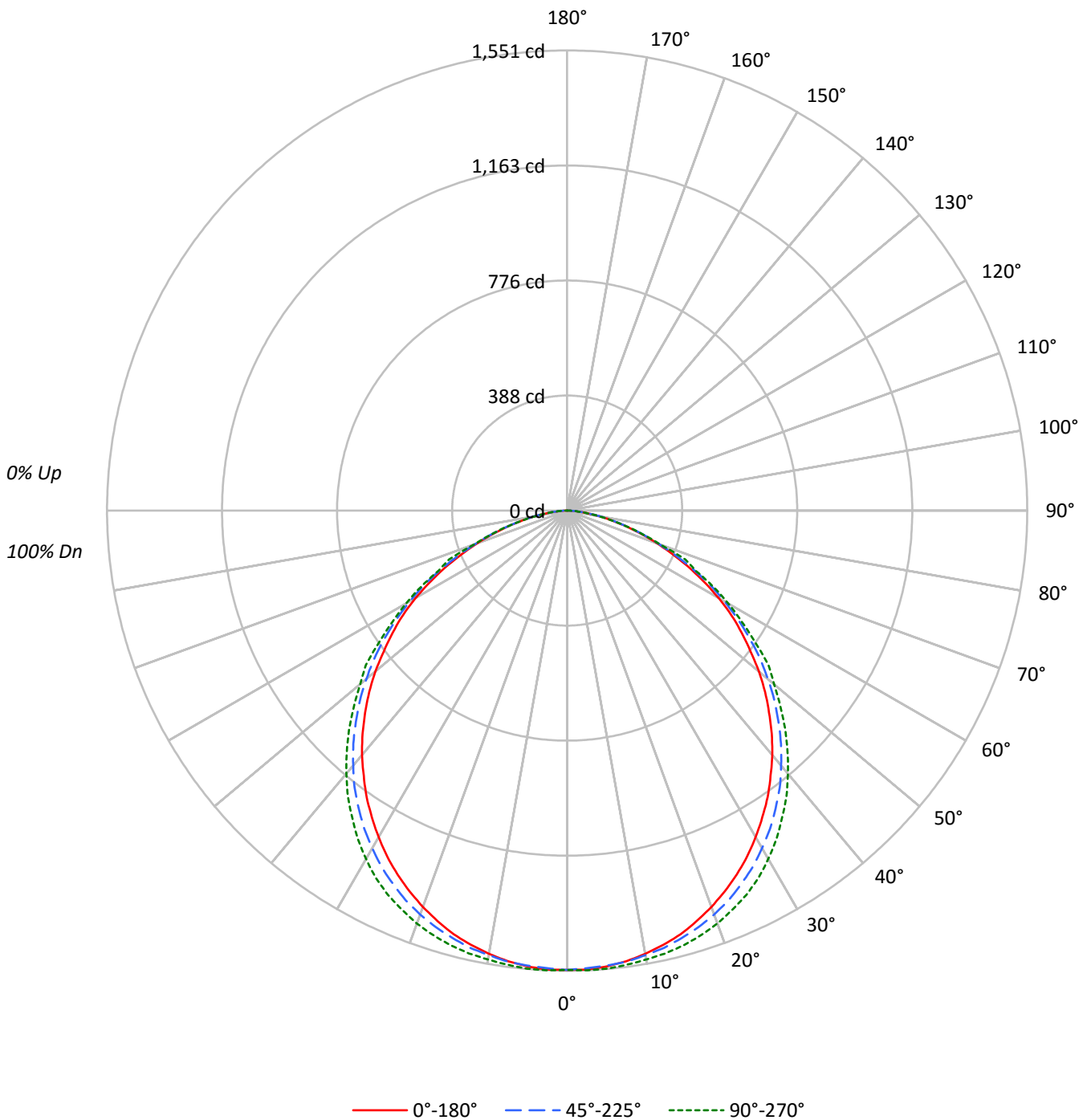
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2083	2083	2083
5°	2083	2079	2093
10°	2072	2079	2099
15°	2059	2078	2113
20°	2036	2074	2121
25°	2009	2062	2121
30°	1975	2042	2107
35°	1936	2012	2076
40°	1890	1971	2034
45°	1832	1917	1976
50°	1765	1850	1906
55°	1685	1762	1814
60°	1588	1648	1688
65°	1442	1490	1518
70°	1266	1295	1313
75°	1069	1084	1092
80°	855	866	843
85°	576	597	576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.5
10°-20°	421.9	10.2
20°-30°	640.2	15.4
30°-40°	764.3	18.4
40°-50°	773.8	18.6
50°-60°	668.9	16.1
60°-70°	463.6	11.2
70°-80°	224.3	5.4
80°-90°	49.3	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°	1208.9	29.1
0°-40°	1973.2	47.5
0°-60°	3415.8	82.2
0°-90°	4153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1542	1541	1539	1547	1550	146
15°	1478	1481	1492	1510	1517	417
25°	1353	1362	1389	1417	1429	623
35°	1179	1189	1225	1256	1264	736
45°	963	976	1007	1033	1039	742
55°	718	726	751	782	773	642
65°	453	458	468	475	477	448
75°	206	207	209	207	210	221
85°	37	40	39	37	37	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1548.2	1546.7	1543.7	1548.2	1551.2
5°	1542.2	1540.8	1539.3	1546.7	1549.7
7.5°	1531.8	1531.8	1533.3	1540.8	1543.7
10°	1516.9	1518.4	1521.4	1533.3	1536.3
12.5°	1499.0	1502.0	1509.5	1522.9	1528.8
15°	1478.2	1481.2	1491.6	1509.5	1516.9
17.5°	1451.4	1457.3	1472.2	1493.1	1500.5
20°	1421.6	1429.0	1448.4	1472.2	1481.2
22.5°	1388.8	1396.2	1421.6	1446.9	1455.8
25°	1353.0	1361.9	1388.8	1417.1	1429.0
27.5°	1314.3	1324.7	1354.5	1384.3	1396.2
30°	1271.1	1283.0	1314.3	1345.6	1356.0
32.5°	1224.9	1236.8	1272.5	1302.3	1312.8
35°	1178.7	1189.1	1224.9	1256.2	1263.6
37.5°	1126.5	1138.4	1177.2	1204.0	1214.4
40°	1075.8	1087.8	1122.0	1148.9	1157.8
42.5°	1020.7	1032.6	1066.9	1092.2	1099.7
45°	962.6	976.0	1007.3	1032.6	1038.6
47.5°	904.5	914.9	947.7	970.1	974.5
50°	843.4	853.8	883.6	906.0	910.4
52.5°	779.3	795.7	819.6	835.9	855.3
55°	718.2	725.7	751.0	782.3	773.4
57.5°	657.1	661.6	682.5	695.9	698.9
60°	590.1	596.0	612.4	619.9	627.3
62.5°	520.0	524.5	543.9	551.3	554.3
65°	453.0	457.5	467.9	475.3	476.8
67.5°	384.4	388.9	397.9	403.8	430.6
70°	321.9	324.8	329.3	341.2	333.8
72.5°	262.3	263.7	268.2	268.2	269.7
75°	205.6	207.1	208.6	207.1	210.1
77.5°	153.5	156.5	158.0	156.5	155.0
80°	110.3	113.2	111.8	108.8	108.8
82.5°	71.5	73.0	71.5	70.0	70.0
85°	37.3	40.2	38.7	37.3	37.3
87.5°	13.4	14.9	16.4	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)