

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: P296923

Luminaire Tested: **D3X-WD-42L92765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296923
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-42L92765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

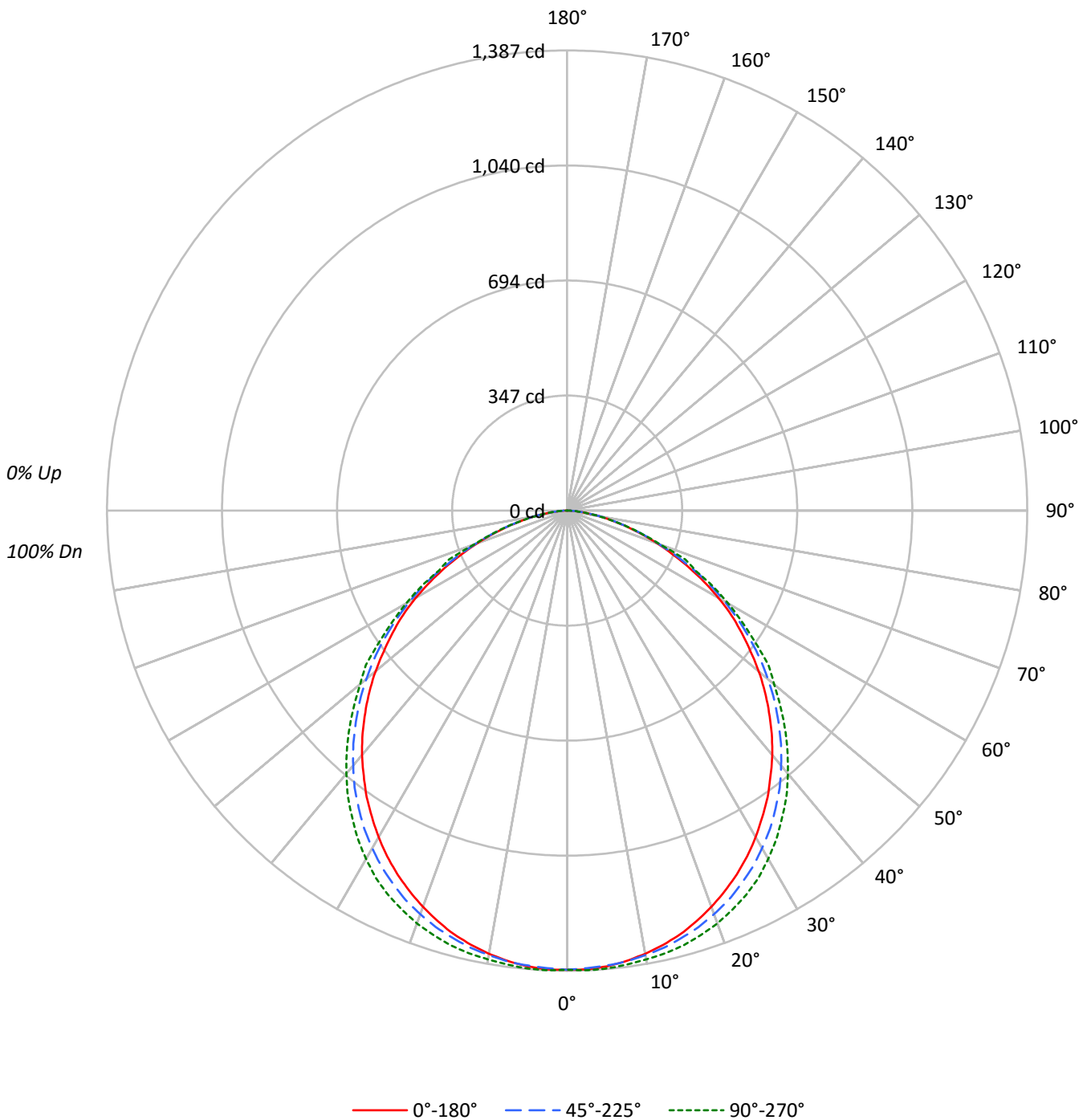
Input Watts (W): 29.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1862	1862	1862
5°	1862	1859	1871
10°	1853	1858	1877
15°	1841	1858	1889
20°	1820	1854	1896
25°	1796	1843	1897
30°	1766	1826	1883
35°	1731	1799	1856
40°	1689	1762	1818
45°	1638	1714	1767
50°	1578	1654	1704
55°	1506	1575	1622
60°	1420	1473	1509
65°	1289	1332	1357
70°	1132	1158	1174
75°	955	970	976
80°	764	774	754
85°	514	534	514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.5
10°-20°	377.2	10.2
20°-30°	572.4	15.4
30°-40°	683.3	18.4
40°-50°	691.8	18.6
50°-60°	598.0	16.1
60°-70°	414.5	11.2
70°-80°	200.5	5.4
80°-90°	44.1	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°	1080.8	29.1
0°-40°	1764.1	47.5
0°-60°	3053.9	82.2
0°-90°	3713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1379	1378	1376	1383	1386	131
15°	1322	1324	1334	1350	1356	372
25°	1210	1218	1242	1267	1278	557
35°	1054	1063	1095	1123	1130	658
45°	861	873	901	923	929	664
55°	642	649	671	699	691	574
65°	405	409	418	425	426	401
75°	184	185	186	185	188	197
85°	33	36	35	33	33	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.2	1384.2	1384.2	1384.2	<i>1384.2</i>
2.5°	<i>1384.2</i>	<i>1382.8</i>	<i>1380.2</i>	<i>1384.2</i>	<i>1386.8</i>
5°	1378.9	1377.5	1376.2	1382.8	<i>1385.5</i>
7.5°	1369.5	1369.5	1370.9	1377.5	<i>1380.2</i>
10°	1356.2	1357.5	1360.2	1370.9	<i>1373.5</i>
12.5°	1340.2	1342.9	1349.5	1361.5	<i>1366.9</i>
15°	1321.6	1324.2	1333.6	1349.5	<i>1356.2</i>
17.5°	1297.6	1302.9	1316.2	1334.9	<i>1341.5</i>
20°	1270.9	1277.6	1294.9	1316.2	<i>1324.2</i>
22.5°	1241.6	1248.3	1270.9	1293.6	<i>1301.6</i>
25°	1209.7	1217.7	1241.6	1266.9	<i>1277.6</i>
27.5°	1175.0	1184.3	1211.0	1237.6	<i>1248.3</i>
30°	1136.4	1147.0	1175.0	1203.0	<i>1212.3</i>
32.5°	1095.1	1105.7	1137.7	1164.4	<i>1173.7</i>
35°	1053.8	1063.1	1095.1	1123.1	<i>1129.7</i>
37.5°	1007.2	1017.8	1052.5	1076.4	<i>1085.8</i>
40°	961.9	972.5	1003.2	1027.1	<i>1035.1</i>
42.5°	912.6	923.2	953.9	976.5	<i>983.2</i>
45°	860.6	872.6	900.6	923.2	<i>928.6</i>
47.5°	808.7	818.0	847.3	867.3	<i>871.3</i>
50°	754.0	763.4	790.0	810.0	<i>814.0</i>
52.5°	696.8	711.4	732.7	747.4	<i>764.7</i>
55°	642.1	648.8	671.4	699.4	<i>691.4</i>
57.5°	587.5	591.5	610.2	622.1	<i>624.8</i>
60°	527.6	532.9	547.5	554.2	<i>560.9</i>
62.5°	464.9	468.9	486.3	492.9	<i>495.6</i>
65°	405.0	409.0	418.3	425.0	<i>426.3</i>
67.5°	343.7	347.7	355.7	361.0	<i>385.0</i>
70°	287.8	290.4	294.4	305.1	<i>298.4</i>
72.5°	234.5	235.8	239.8	239.8	<i>241.1</i>
75°	183.8	185.2	186.5	185.2	<i>187.8</i>
77.5°	137.2	139.9	141.2	139.9	<i>138.6</i>
80°	98.6	101.2	99.9	97.3	<i>97.3</i>
82.5°	63.9	65.3	63.9	62.6	<i>62.6</i>
85°	33.3	36.0	34.6	33.3	<i>33.3</i>
87.5°	12.0	13.3	14.7	16.0	<i>16.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)