

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: P296799

Luminaire Tested: **D3X-WD-50L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296799
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-50L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4759.0 lumens
Efficiency: N/A
Efficacy: 133.7 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

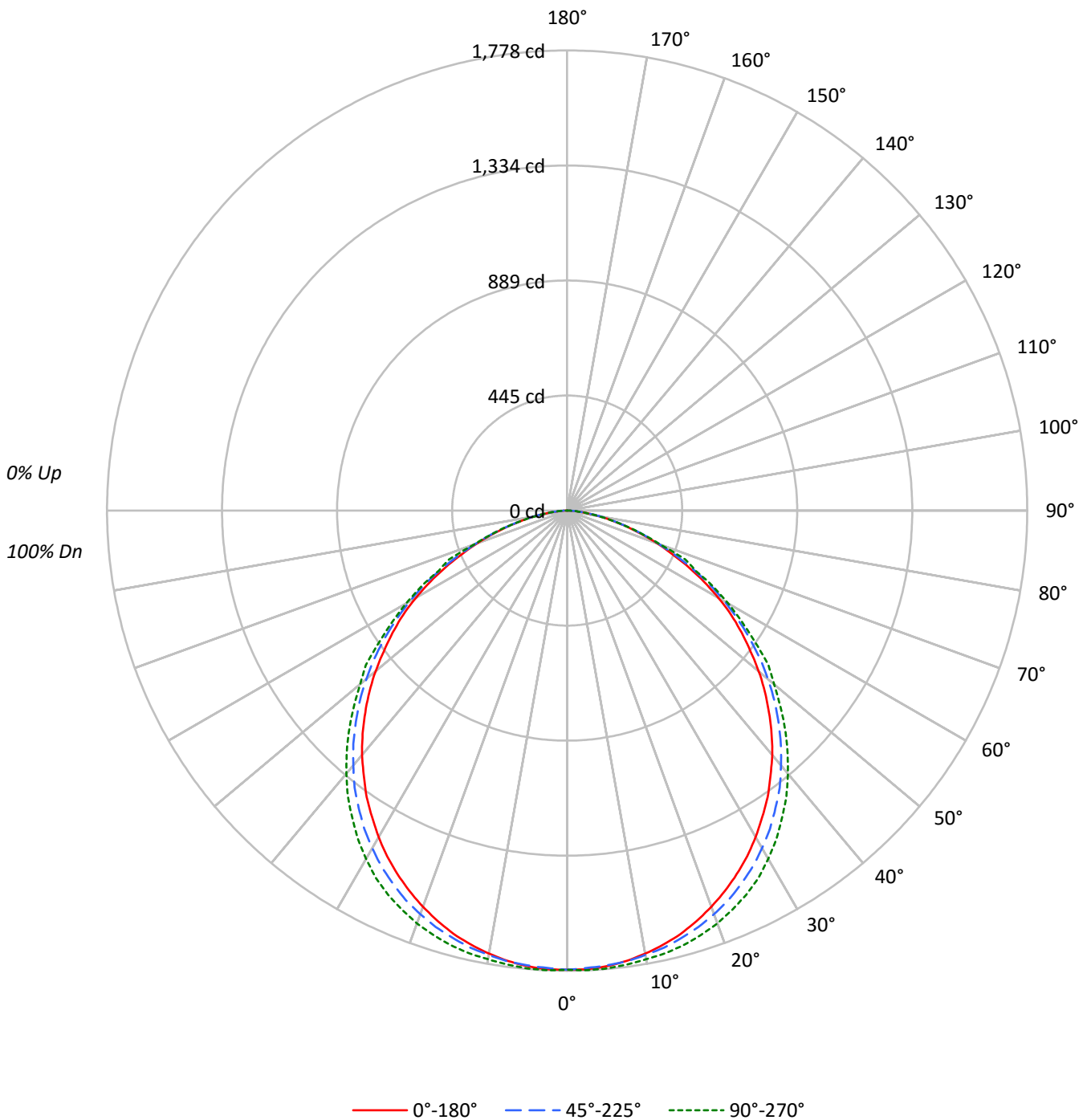
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2387	2387	2387
5°	2387	2382	2398
10°	2375	2382	2405
15°	2360	2381	2421
20°	2332	2376	2430
25°	2302	2363	2431
30°	2263	2340	2414
35°	2219	2305	2378
40°	2165	2258	2330
45°	2099	2196	2265
50°	2023	2120	2184
55°	1931	2019	2079
60°	1820	1889	1935
65°	1653	1707	1740
70°	1451	1485	1505
75°	1225	1243	1252
80°	979	993	965
85°	659	685	659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	3.5
10°-20°	483.5	10.2
20°-30°	733.6	15.4
30°-40°	875.8	18.4
40°-50°	886.7	18.6
50°-60°	766.4	16.1
60°-70°	531.2	11.2
70°-80°	257.0	5.4
80°-90°	56.5	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°	1385.3	29.1
0°-40°	2261.1	47.5
0°-60°	3914.2	82.2
0°-90°	4759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4759.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1767	1766	1764	1772	1776	168
15°	1694	1697	1709	1730	1738	477
25°	1550	1561	1591	1624	1638	714
35°	1351	1363	1404	1439	1448	844
45°	1103	1118	1154	1183	1190	851
55°	823	832	861	896	886	736
65°	519	524	536	545	546	514
75°	236	237	239	237	241	253
85°	43	46	44	43	43	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.1	1774.1	1774.1	1774.1	1774.1
2.5°	1774.1	1772.4	1769.0	1774.1	1777.5
5°	1767.3	1765.6	1763.9	1772.4	1775.8
7.5°	1755.3	1755.3	1757.0	1765.6	1769.0
10°	1738.3	1740.0	1743.4	1757.0	1760.5
12.5°	1717.8	1721.2	1729.7	1745.1	1751.9
15°	1693.9	1697.3	1709.2	1729.7	1738.3
17.5°	1663.1	1670.0	1687.0	1710.9	1719.5
20°	1629.0	1637.5	1659.7	1687.0	1697.3
22.5°	1591.4	1600.0	1629.0	1658.0	1668.3
25°	1550.4	1560.7	1591.4	1623.9	1637.5
27.5°	1506.0	1518.0	1552.1	1586.3	1600.0
30°	1456.5	1470.2	1506.0	1541.9	1553.9
32.5°	1403.6	1417.2	1458.2	1492.4	1504.3
35°	1350.7	1362.6	1403.6	1439.4	1448.0
37.5°	1290.9	1304.6	1348.9	1379.7	1391.6
40°	1232.8	1246.5	1285.8	1316.5	1326.7
42.5°	1169.7	1183.3	1222.6	1251.6	1260.2
45°	1103.1	1118.4	1154.3	1183.3	1190.1
47.5°	1036.5	1048.4	1086.0	1111.6	1116.7
50°	966.5	978.4	1012.6	1038.2	1043.3
52.5°	893.0	911.8	939.1	957.9	980.1
55°	823.0	831.6	860.6	896.5	886.2
57.5°	753.0	758.1	782.0	797.4	800.8
60°	676.2	683.0	701.8	710.3	718.9
62.5°	595.9	601.0	623.2	631.8	635.2
65°	519.1	524.2	536.2	544.7	546.4
67.5°	440.5	445.7	455.9	462.7	493.5
70°	368.8	372.2	377.4	391.0	382.5
72.5°	300.5	302.2	307.4	307.4	309.1
75°	235.6	237.3	239.1	237.3	240.8
77.5°	175.9	179.3	181.0	179.3	177.6
80°	126.4	129.8	128.1	124.6	124.6
82.5°	82.0	83.7	82.0	80.3	80.3
85°	42.7	46.1	44.4	42.7	42.7
87.5°	15.4	17.1	18.8	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)