

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: P296937

Luminaire Tested: **D3X-WD-50L92765-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296937
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-50L92765-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4008.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

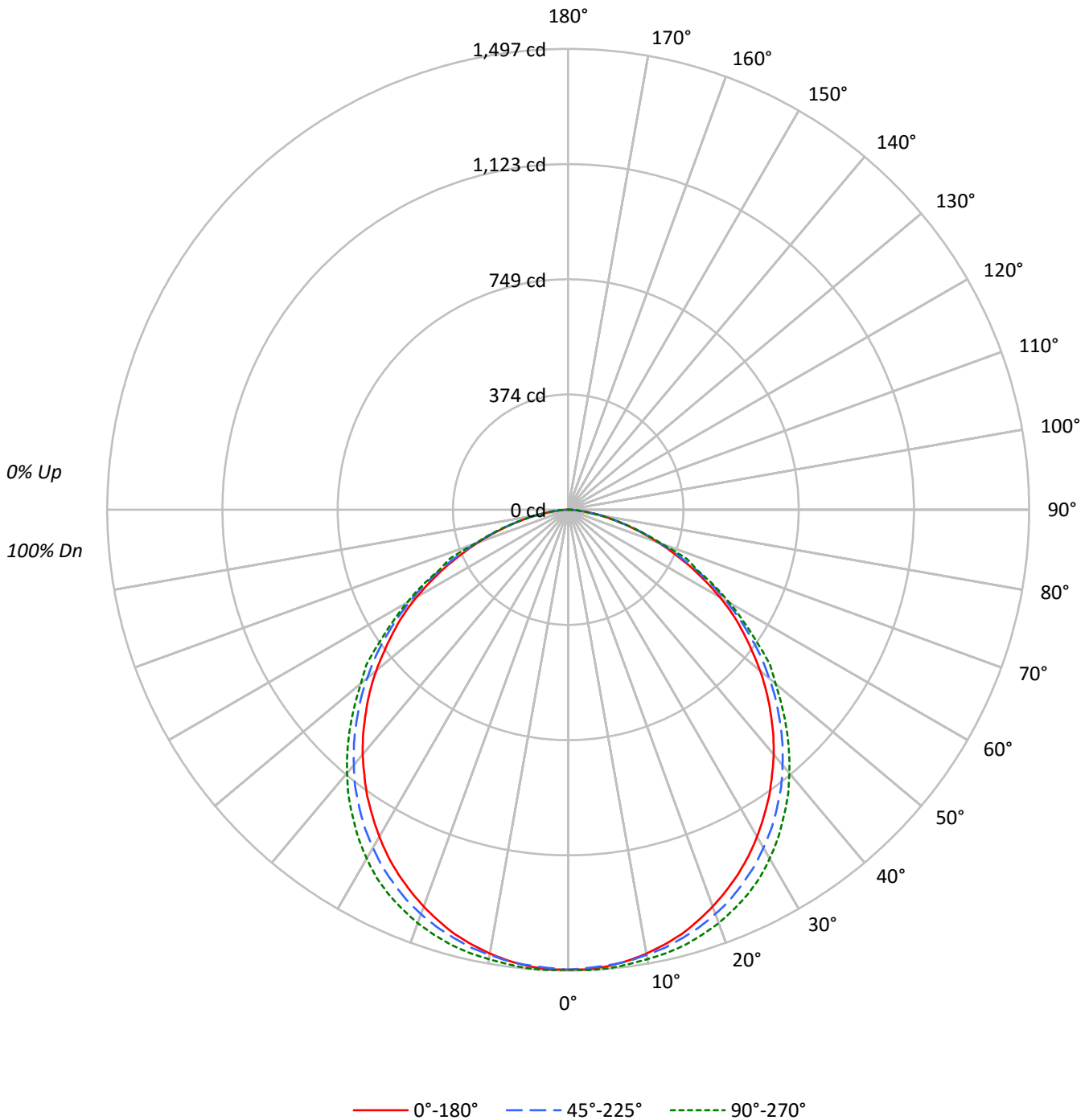
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2010	2010	2010
5°	2010	2006	2020
10°	2000	2006	2026
15°	1987	2005	2039
20°	1964	2001	2047
25°	1939	1990	2047
30°	1906	1971	2033
35°	1868	1942	2003
40°	1824	1902	1963
45°	1768	1850	1907
50°	1704	1785	1839
55°	1626	1700	1751
60°	1533	1590	1629
65°	1392	1438	1465
70°	1222	1250	1267
75°	1032	1046	1054
80°	824	836	814
85°	556	577	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.5
10°-20°	407.2	10.2
20°-30°	617.8	15.4
30°-40°	737.6	18.4
40°-50°	746.8	18.6
50°-60°	645.5	16.1
60°-70°	447.4	11.2
70°-80°	216.5	5.4
80°-90°	47.6	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°	1166.7	29.1
0°-40°	1904.3	47.5
0°-60°	3296.6	82.2
0°-90°	4008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1488	1487	1486	1493	1496	141
15°	1427	1429	1440	1457	1464	402
25°	1306	1314	1340	1368	1379	601
35°	1138	1148	1182	1212	1220	711
45°	929	942	972	997	1002	717
55°	693	700	725	755	746	619
65°	437	442	452	459	460	433
75°	198	200	201	200	203	213
85°	36	39	37	36	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.2	1494.2	1494.2	1494.2	1494.2
2.5°	1494.2	1492.7	1489.8	1494.2	1497.0
5°	1488.4	1487.0	1485.5	1492.7	1495.6
7.5°	1478.3	1478.3	1479.8	1487.0	1489.8
10°	1464.0	1465.4	1468.3	1479.8	1482.6
12.5°	1446.7	1449.6	1456.8	1469.7	1475.5
15°	1426.6	1429.4	1439.5	1456.8	1464.0
17.5°	1400.7	1406.4	1420.8	1440.9	1448.1
20°	1371.9	1379.1	1397.8	1420.8	1429.4
22.5°	1340.3	1347.5	1371.9	1396.4	1405.0
25°	1305.8	1314.4	1340.3	1367.6	1379.1
27.5°	1268.4	1278.4	1307.2	1336.0	1347.5
30°	1226.7	1238.2	1268.4	1298.6	1308.6
32.5°	1182.1	1193.6	1228.1	1256.9	1266.9
35°	1137.5	1147.6	1182.1	1212.3	1219.5
37.5°	1087.2	1098.7	1136.1	1162.0	1172.0
40°	1038.3	1049.8	1082.9	1108.8	1117.4
42.5°	985.1	996.6	1029.7	1054.1	1061.3
45°	929.0	941.9	972.1	996.6	1002.3
47.5°	872.9	883.0	914.6	936.2	940.5
50°	813.9	824.0	852.8	874.3	878.7
52.5°	752.1	767.9	790.9	806.8	825.5
55°	693.1	700.3	724.8	755.0	746.4
57.5°	634.2	638.5	658.6	671.6	674.5
60°	569.5	575.2	591.0	598.2	605.4
62.5°	501.9	506.2	524.9	532.1	535.0
65°	437.2	441.5	451.6	458.7	460.2
67.5°	371.0	375.3	384.0	389.7	415.6
70°	310.6	313.5	317.8	329.3	322.1
72.5°	253.1	254.5	258.9	258.9	260.3
75°	198.5	199.9	201.3	199.9	202.8
77.5°	148.1	151.0	152.4	151.0	149.6
80°	106.4	109.3	107.9	105.0	105.0
82.5°	69.0	70.5	69.0	67.6	67.6
85°	36.0	38.8	37.4	36.0	36.0
87.5°	12.9	14.4	15.8	17.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)