

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: P297011

Luminaire Tested: **D3X-WG-50L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-50L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4928.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

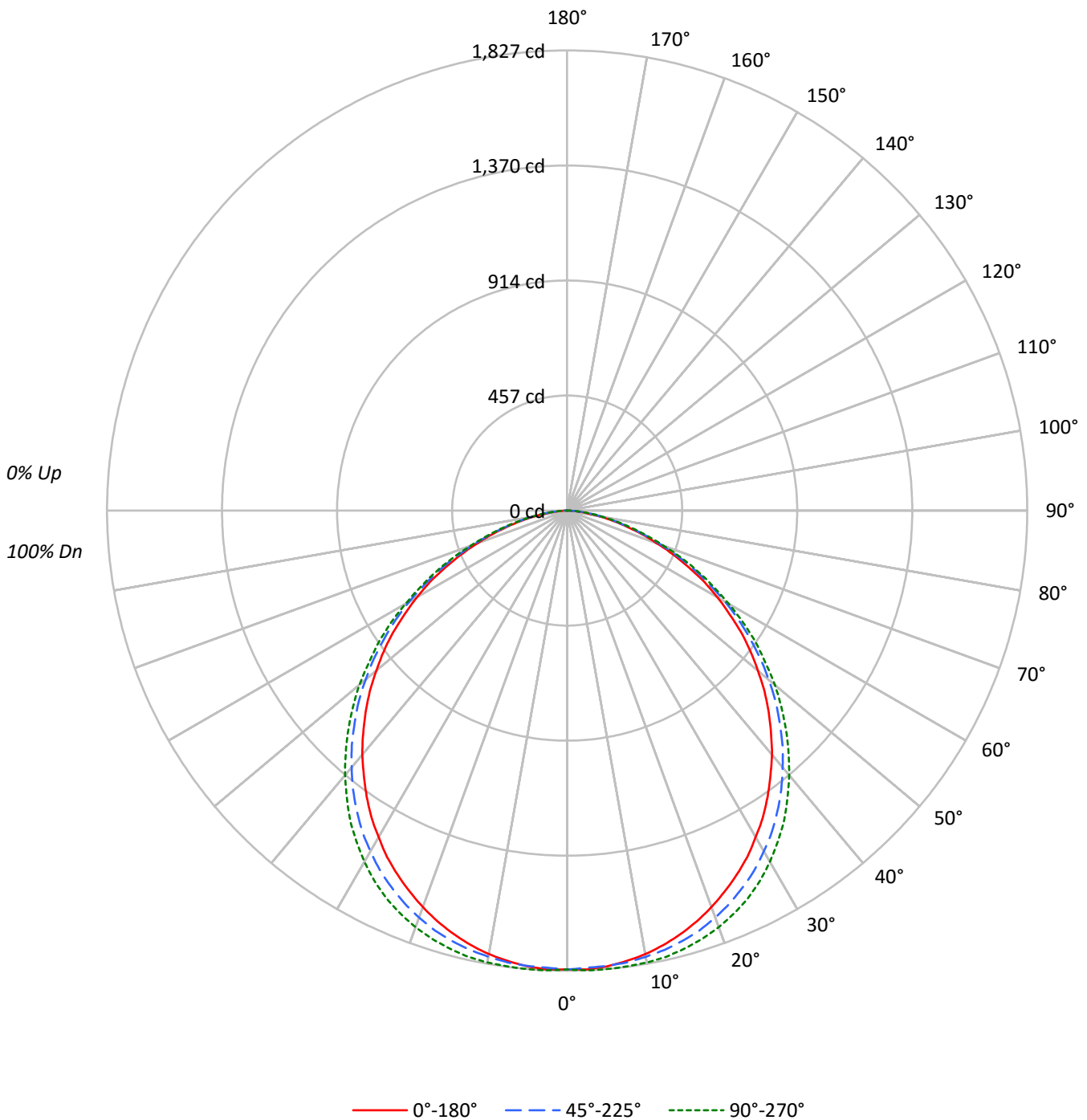
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
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		47	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	27		38	32	27		37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2451	2451	2451
5°	2453	2451	2468
10°	2443	2458	2489
15°	2425	2464	2508
20°	2399	2462	2520
25°	2367	2450	2521
30°	2326	2427	2501
35°	2279	2392	2468
40°	2223	2338	2409
45°	2153	2271	2338
50°	2069	2188	2254
55°	1979	2079	2145
60°	1853	1948	1995
65°	1692	1782	1826
70°	1486	1563	1604
75°	1257	1321	1367
80°	999	1094	1122
85°	681	818	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	3.5
10°-20°	499.7	10.1
20°-30°	759.5	15.4
30°-40°	906.2	18.4
40°-50°	915.3	18.6
50°-60°	788.6	16.0
60°-70°	549.7	11.2
70°-80°	272.4	5.5
80°-90°	63.5	1.3
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°	1432.3	29.1
0°-40°	2338.5	47.5
0°-60°	4042.4	82.0
0°-90°	4928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1822	1822	1822	1822	1822	
5°	1816	1815	1815	1824	1827	172
15°	1741	1749	1769	1792	1801	491
25°	1594	1615	1650	1684	1698	734
35°	1388	1410	1456	1490	1502	867
45°	1132	1156	1193	1222	1229	872
55°	844	862	886	907	914	752
65°	531	542	560	565	574	528
75°	242	245	254	260	263	261
85°	44	53	53	49	51	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1821.8	1821.8	1821.8	1821.8	1821.8
2.5°	1823.5	1820.0	1816.5	1823.5	1827.1
5°	1816.5	1814.7	1814.7	1823.5	1827.1
7.5°	1804.1	1804.1	1809.4	1821.8	1825.3
10°	1788.2	1791.8	1798.8	1816.5	1821.8
12.5°	1767.1	1774.1	1786.5	1807.7	1814.7
15°	1740.6	1749.4	1768.8	1791.8	1800.6
17.5°	1710.6	1722.9	1747.6	1774.1	1782.9
20°	1675.3	1691.1	1719.4	1749.4	1760.0
22.5°	1636.4	1655.8	1687.6	1719.4	1731.7
25°	1594.1	1615.2	1650.5	1684.1	1698.2
27.5°	1549.9	1571.1	1609.9	1643.5	1657.6
30°	1497.0	1521.7	1562.3	1597.6	1609.9
32.5°	1445.8	1470.5	1512.9	1544.6	1557.0
35°	1387.5	1410.5	1456.4	1489.9	1502.3
37.5°	1325.7	1352.2	1396.3	1426.4	1436.9
40°	1265.7	1288.7	1331.0	1361.0	1371.6
42.5°	1198.6	1223.3	1265.7	1292.2	1301.0
45°	1131.5	1156.3	1193.3	1221.6	1228.6
47.5°	1062.7	1085.7	1122.7	1145.7	1152.7
50°	988.6	1009.7	1045.1	1068.0	1076.8
52.5°	917.9	937.4	967.4	986.8	992.1
55°	843.8	861.5	886.2	907.4	914.4
57.5°	764.4	783.8	806.7	824.4	829.7
60°	688.5	704.3	723.8	739.7	741.4
62.5°	614.3	621.4	639.0	653.2	654.9
65°	531.4	541.9	559.6	564.9	573.7
67.5°	455.4	462.5	476.6	483.7	490.8
70°	377.8	383.1	397.2	406.0	407.8
72.5°	310.7	312.5	323.0	330.1	331.9
75°	241.8	245.4	254.2	259.5	263.0
77.5°	183.6	187.1	194.2	197.7	197.7
80°	128.9	134.2	141.2	143.0	144.8
82.5°	83.0	90.0	95.3	97.1	93.6
85°	44.1	53.0	53.0	49.4	51.2
87.5°	15.9	19.4	21.2	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)