

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: P297285

Luminaire Tested: **D3X-WO-45L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-45L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547.0 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

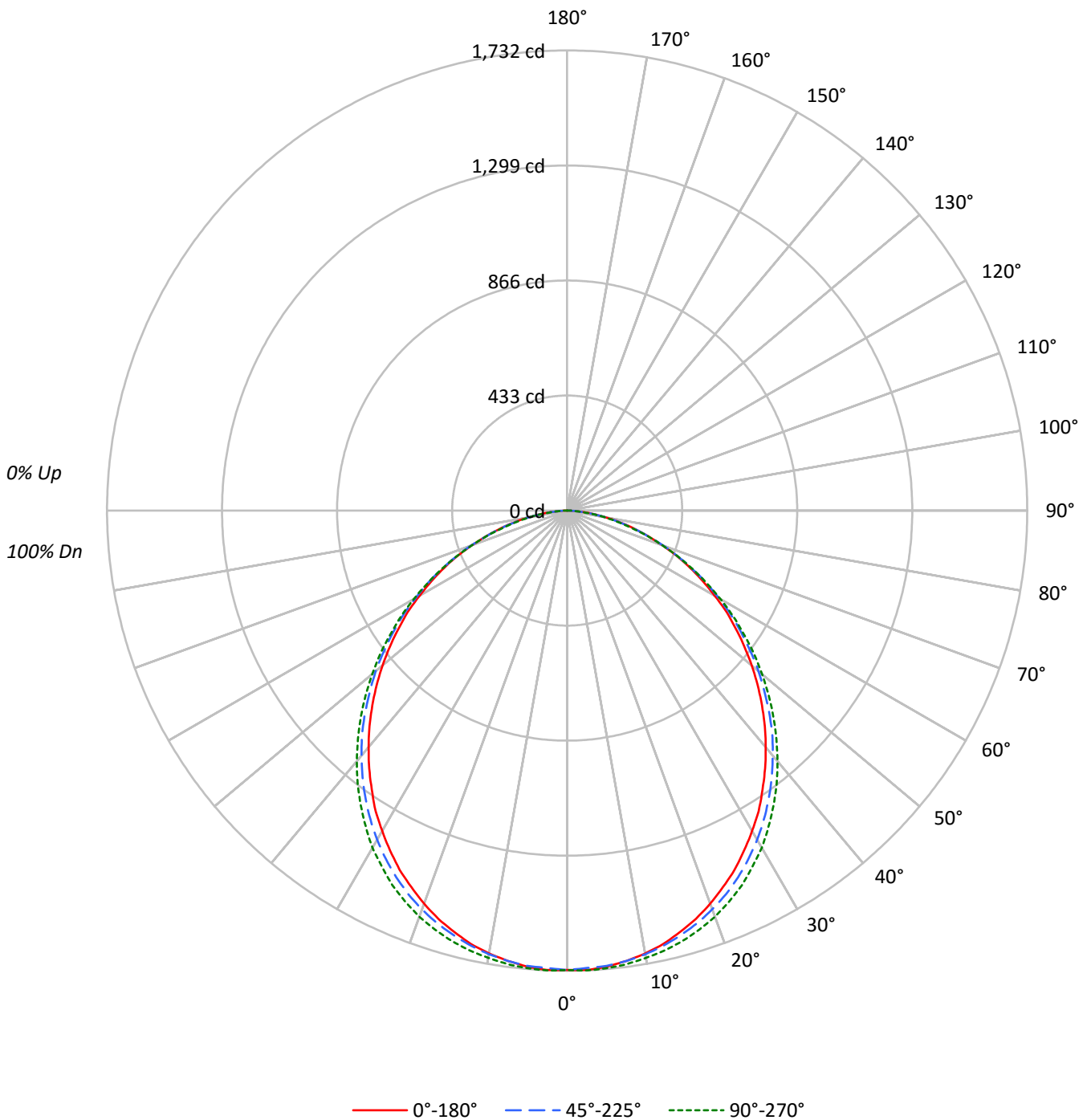
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	2327	2327	2327
5°	2327	2323	2336
10°	2312	2317	2335
15°	2287	2304	2336
20°	2255	2288	2329
25°	2215	2260	2310
30°	2163	2223	2277
35°	2106	2174	2224
40°	2042	2115	2163
45°	1973	2046	2090
50°	1898	1969	2004
55°	1818	1876	1904
60°	1727	1772	1793
65°	1629	1653	1663
70°	1495	1513	1495
75°	1346	1338	1298
80°	1139	1127	1092
85°	851	827	733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.6
10°-20°	467.7	10.3
20°-30°	701.3	15.4
30°-40°	825.9	18.2
40°-50°	826.0	18.2
50°-60°	712.7	15.7
60°-70°	512.8	11.3
70°-80°	272.0	6.0
80°-90°	64.9	1.4
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°	1332.7	29.3
0°-40°	2158.6	47.5
0°-60°	3697.3	81.3
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1723	1722	1720	1726	1729	163
15°	1642	1647	1654	1671	1677	463
25°	1492	1501	1522	1549	1556	686
35°	1282	1297	1323	1346	1354	802
45°	1037	1051	1075	1094	1098	800
55°	775	783	800	813	812	694
65°	512	513	519	522	522	506
75°	259	256	257	251	250	275
85°	55	55	54	49	48	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.3	1729.3	1729.3	1729.3	1729.3
2.5°	1730.8	1727.8	1723.2	1729.3	1732.4
5°	1723.2	1721.6	1720.1	1726.2	1729.3
7.5°	1709.4	1710.9	1709.4	1718.6	1721.6
10°	1692.5	1694.1	1695.6	1706.3	1709.4
12.5°	1671.1	1672.6	1677.2	1691.0	1695.6
15°	1642.0	1646.6	1654.3	1671.1	1677.2
17.5°	1611.4	1617.5	1628.2	1648.1	1654.3
20°	1574.6	1582.3	1597.6	1619.0	1626.7
22.5°	1533.2	1540.9	1562.4	1585.3	1593.0
25°	1491.9	1501.1	1522.5	1548.6	1556.2
27.5°	1442.9	1455.1	1478.1	1504.1	1510.3
30°	1392.3	1403.1	1430.6	1455.1	1465.9
32.5°	1341.8	1352.5	1378.5	1403.1	1410.7
35°	1282.0	1297.4	1323.4	1346.4	1354.0
37.5°	1223.8	1237.6	1265.2	1288.2	1295.8
40°	1162.6	1174.8	1203.9	1225.4	1231.5
42.5°	1101.3	1113.6	1142.7	1159.5	1165.6
45°	1037.0	1050.8	1075.3	1093.6	1098.2
47.5°	972.6	983.4	1006.3	1023.2	1029.3
50°	906.8	917.5	940.5	954.3	957.3
52.5°	840.9	848.6	870.0	882.3	886.9
55°	775.0	782.7	799.6	813.3	811.8
57.5°	712.2	715.3	732.2	741.4	741.4
60°	641.8	644.9	658.6	664.8	666.3
62.5°	575.9	580.5	591.2	592.8	592.8
65°	511.6	513.1	519.3	522.3	522.3
67.5°	447.3	445.7	451.9	451.9	450.3
70°	379.9	382.9	384.5	381.4	379.9
72.5°	318.6	317.1	317.1	315.5	315.5
75°	258.9	255.8	257.3	251.2	249.7
77.5°	203.7	199.1	197.6	194.5	191.5
80°	147.0	147.0	145.5	142.4	140.9
82.5°	98.0	98.0	96.5	93.4	90.4
85°	55.1	55.1	53.6	49.0	47.5
87.5°	18.4	18.4	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)