

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: P297287

Luminaire Tested: **D3X-WO-45L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297287
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4820.0 lumens
Efficiency: N/A
Efficacy: 145.6 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

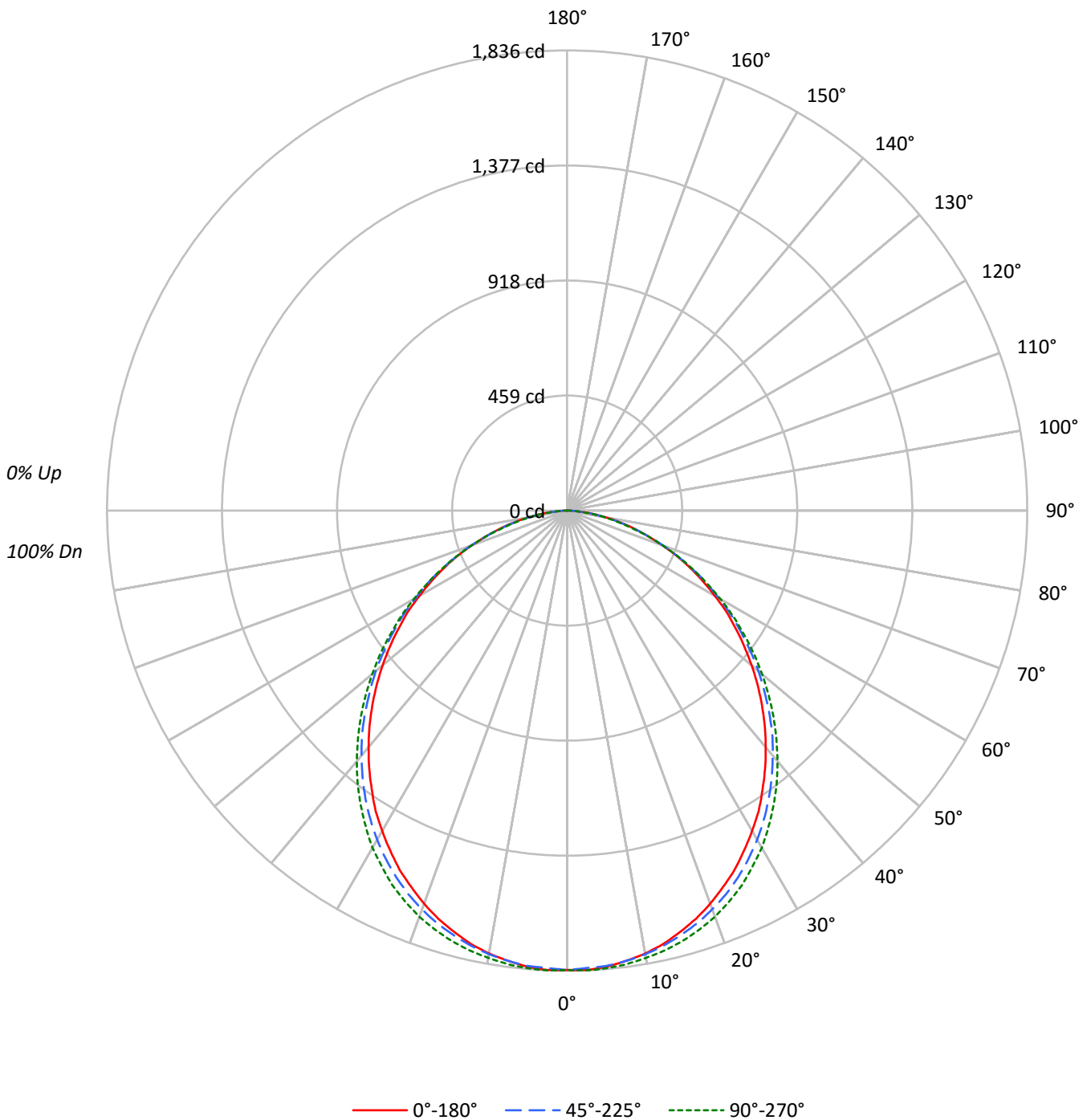
Input Watts (W): 33.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2466	2466	2466
5°	2467	2463	2476
10°	2451	2456	2476
15°	2425	2443	2477
20°	2390	2425	2469
25°	2348	2396	2449
30°	2293	2356	2414
35°	2232	2304	2358
40°	2165	2242	2293
45°	2092	2169	2215
50°	2012	2087	2124
55°	1927	1988	2019
60°	1831	1879	1901
65°	1727	1752	1763
70°	1584	1603	1584
75°	1426	1418	1376
80°	1208	1195	1158
85°	903	877	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	3.6
10°-20°	495.8	10.3
20°-30°	743.4	15.4
30°-40°	875.4	18.2
40°-50°	875.6	18.2
50°-60°	755.5	15.7
60°-70°	543.6	11.3
70°-80°	288.4	6.0
80°-90°	68.8	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°	1412.7	29.3
0°-40°	2288.2	47.5
0°-60°	3919.3	81.3
0°-90°	4820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1827	1825	1823	1830	1833	173
15°	1741	1746	1754	1771	1778	491
25°	1582	1591	1614	1642	1650	727
35°	1359	1375	1403	1427	1435	850
45°	1099	1114	1140	1159	1164	848
55°	822	830	848	862	861	735
65°	542	544	550	554	554	536
75°	274	271	273	266	265	292
85°	58	58	57	52	50	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.1	1833.1	1833.1	1833.1	1833.1
2.5°	1834.8	1831.5	1826.6	1833.1	1836.4
5°	1826.6	1825.0	1823.4	1829.9	1833.1
7.5°	1812.0	1813.7	1812.0	1821.8	1825.0
10°	1794.2	1795.8	1797.4	1808.8	1812.0
12.5°	1771.4	1773.1	1777.9	1792.5	1797.4
15°	1740.6	1745.5	1753.6	1771.4	1777.9
17.5°	1708.1	1714.6	1726.0	1747.1	1753.6
20°	1669.1	1677.3	1693.5	1716.2	1724.3
22.5°	1625.3	1633.4	1656.2	1680.5	1688.6
25°	1581.5	1591.2	1613.9	1641.5	1649.7
27.5°	1529.5	1542.5	1566.9	1594.5	1600.9
30°	1475.9	1487.3	1516.5	1542.5	1553.9
32.5°	1422.3	1433.7	1461.3	1487.3	1495.4
35°	1359.0	1375.3	1402.9	1427.2	1435.3
37.5°	1297.3	1311.9	1341.2	1365.5	1373.6
40°	1232.4	1245.4	1276.2	1298.9	1305.4
42.5°	1167.4	1180.4	1211.3	1229.1	1235.6
45°	1099.2	1113.8	1139.8	1159.3	1164.2
47.5°	1031.0	1042.4	1066.8	1084.6	1091.1
50°	961.2	972.6	996.9	1011.6	1014.8
52.5°	891.4	899.5	922.3	935.2	940.1
55°	821.6	829.7	847.6	862.2	860.6
57.5°	755.0	758.3	776.1	785.9	785.9
60°	680.3	683.6	698.2	704.7	706.3
62.5°	610.5	615.4	626.7	628.4	628.4
65°	542.3	543.9	550.4	553.7	553.7
67.5°	474.1	472.5	479.0	479.0	477.4
70°	402.7	405.9	407.5	404.3	402.7
72.5°	337.7	336.1	336.1	334.5	334.5
75°	274.4	271.2	272.8	266.3	264.7
77.5°	215.9	211.1	209.5	206.2	203.0
80°	155.9	155.9	154.2	151.0	149.4
82.5°	103.9	103.9	102.3	99.0	95.8
85°	58.5	58.5	56.8	52.0	50.3
87.5°	19.5	19.5	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)