

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: P297427

Luminaire Tested: **D3X-WO-45L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297427
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-45L93050-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4247.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

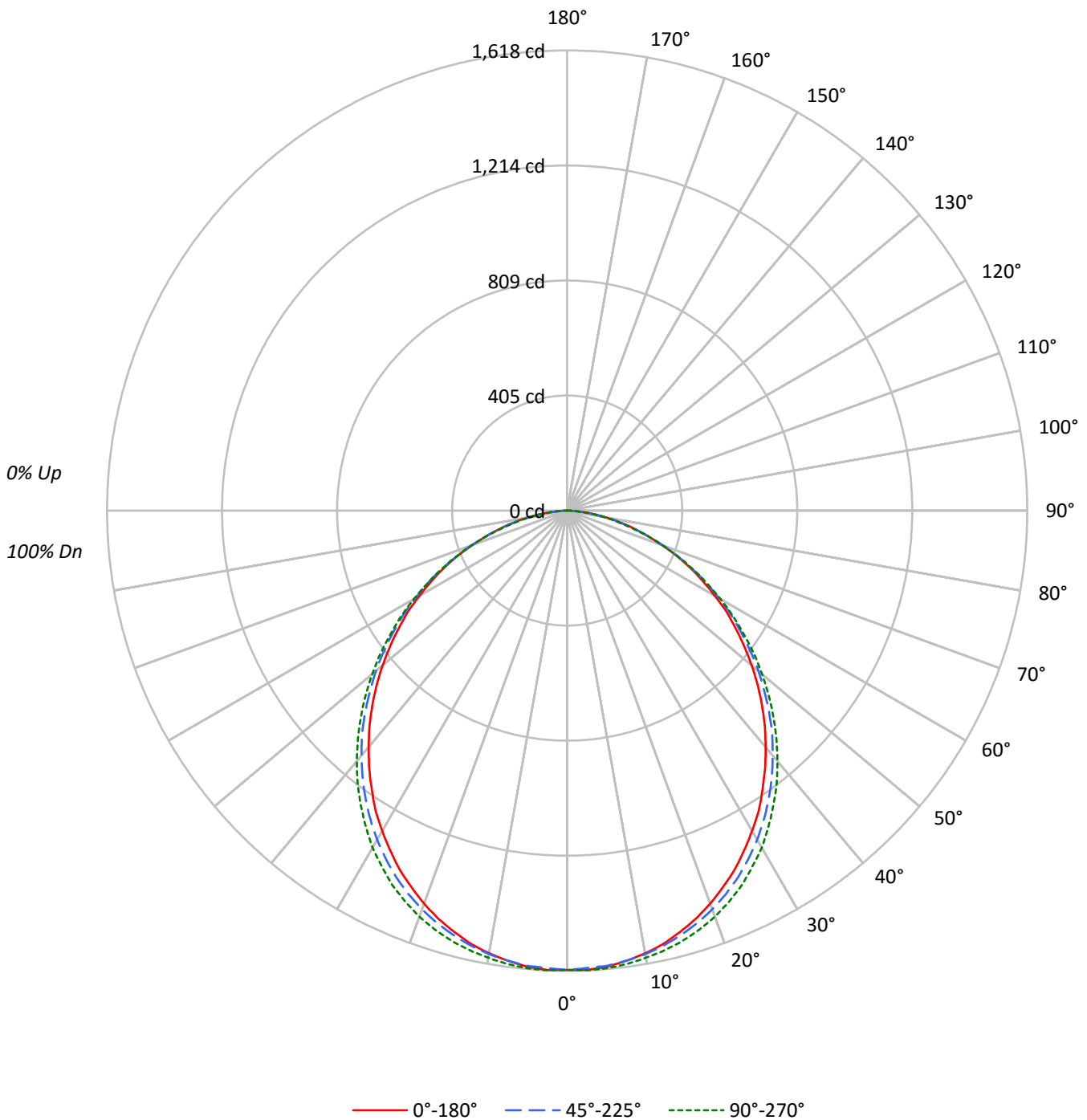
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2173	2173	2173
5°	2174	2170	2182
10°	2160	2164	2181
15°	2136	2152	2182
20°	2106	2137	2176
25°	2069	2111	2158
30°	2021	2076	2127
35°	1967	2030	2077
40°	1907	1975	2020
45°	1843	1911	1952
50°	1773	1839	1872
55°	1698	1752	1779
60°	1613	1655	1675
65°	1521	1544	1553
70°	1396	1413	1396
75°	1257	1250	1212
80°	1064	1053	1020
85°	795	773	685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.6
10°-20°	436.9	10.3
20°-30°	655.0	15.4
30°-40°	771.4	18.2
40°-50°	771.5	18.2
50°-60°	665.7	15.7
60°-70°	479.0	11.3
70°-80°	254.1	6.0
80°-90°	60.6	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°	1244.8	29.3
0°-40°	2016.2	47.5
0°-60°	3453.3	81.3
0°-90°	4247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1610	1608	1607	1612	1615	153
15°	1534	1538	1545	1561	1567	432
25°	1394	1402	1422	1446	1454	641
35°	1198	1212	1236	1258	1265	749
45°	969	981	1004	1022	1026	747
55°	724	731	747	760	758	648
65°	478	479	485	488	488	473
75°	242	239	240	235	233	257
85°	52	52	50	46	44	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.2	1615.2	1615.2	1615.2	1615.2
2.5°	1616.6	1613.8	1609.5	1615.2	1618.1
5°	1609.5	1608.1	1606.6	1612.4	1615.2
7.5°	1596.6	1598.0	1596.6	1605.2	1608.1
10°	1580.9	1582.3	1583.7	1593.8	1596.6
12.5°	1560.8	1562.3	1566.6	1579.4	1583.7
15°	1533.7	1538.0	1545.1	1560.8	1566.6
17.5°	1505.1	1510.8	1520.8	1539.4	1545.1
20°	1470.7	1477.9	1492.2	1512.2	1519.4
22.5°	1432.1	1439.2	1459.3	1480.7	1487.9
25°	1393.5	1402.0	1422.1	1446.4	1453.5
27.5°	1347.7	1359.1	1380.6	1404.9	1410.6
30°	1300.5	1310.5	1336.2	1359.1	1369.1
32.5°	1253.3	1263.3	1287.6	1310.5	1317.6
35°	1197.5	1211.8	1236.1	1257.5	1264.7
37.5°	1143.1	1156.0	1181.7	1203.2	1210.3
40°	1085.9	1097.3	1124.5	1144.5	1150.2
42.5°	1028.6	1040.1	1067.3	1083.0	1088.7
45°	968.6	981.4	1004.3	1021.5	1025.8
47.5°	908.5	918.5	939.9	955.7	961.4
50°	846.9	857.0	878.4	891.3	894.2
52.5°	785.4	792.6	812.6	824.1	828.4
55°	723.9	731.1	746.8	759.7	758.2
57.5°	665.3	668.1	683.9	692.4	692.4
60°	599.4	602.3	615.2	620.9	622.3
62.5°	537.9	542.2	552.2	553.7	553.7
65°	477.8	479.3	485.0	487.9	487.9
67.5°	417.8	416.3	422.0	422.0	420.6
70°	354.8	357.7	359.1	356.2	354.8
72.5°	297.6	296.1	296.1	294.7	294.7
75°	241.8	238.9	240.4	234.6	233.2
77.5°	190.3	186.0	184.6	181.7	178.8
80°	137.3	137.3	135.9	133.1	131.6
82.5°	91.6	91.6	90.1	87.3	84.4
85°	51.5	51.5	50.1	45.8	44.4
87.5°	17.2	17.2	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)