

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: P297280

Luminaire Tested: **D3X-WO-42L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297280
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-42L83050-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: 4214.0 lumens
Efficiency: N/A
Efficacy: 144.8 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

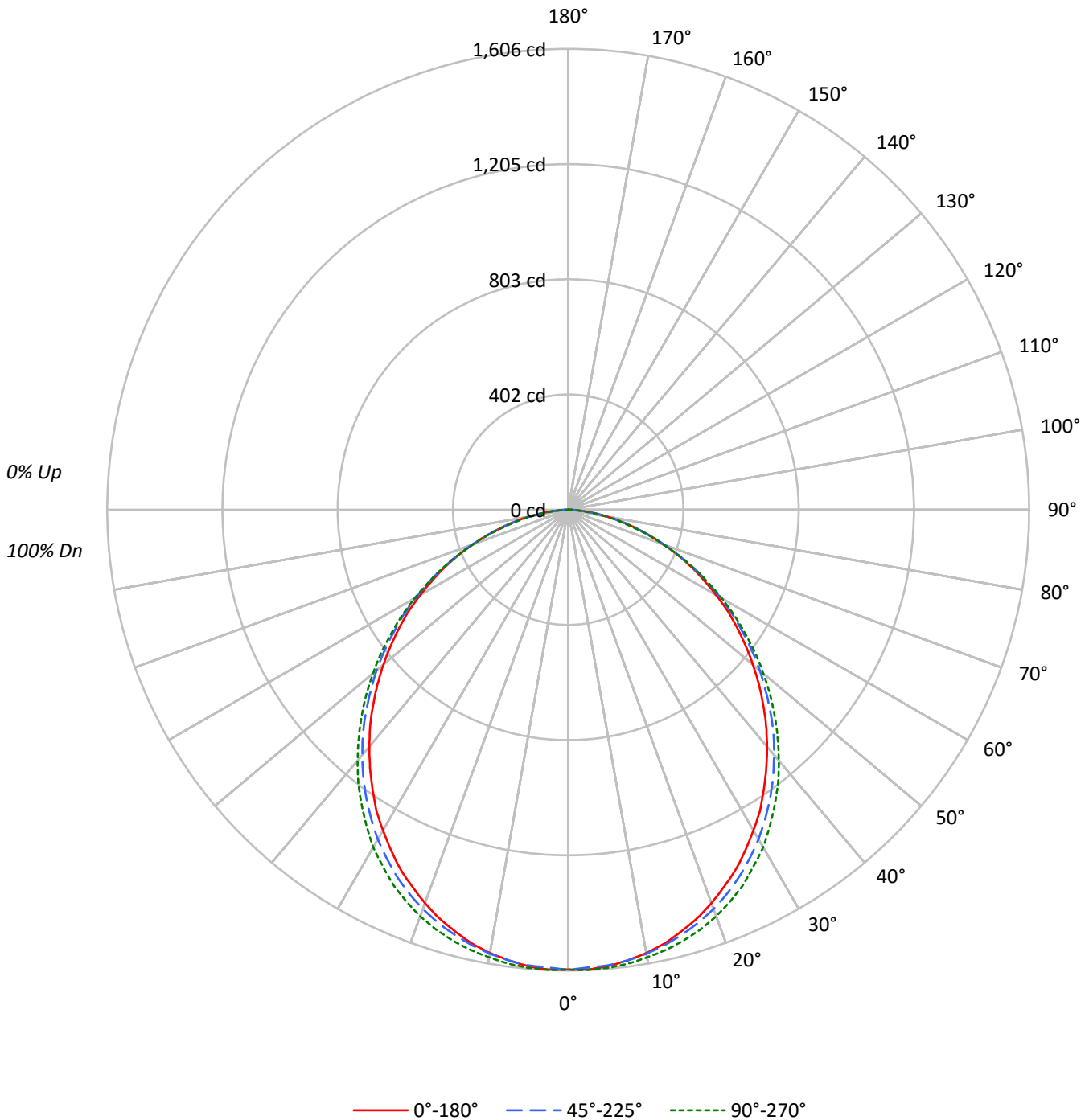
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2156	2156	2156
5°	2157	2153	2165
10°	2143	2147	2164
15°	2120	2136	2165
20°	2089	2120	2159
25°	2053	2095	2141
30°	2005	2060	2111
35°	1952	2015	2061
40°	1892	1960	2005
45°	1829	1896	1937
50°	1759	1824	1857
55°	1685	1738	1765
60°	1601	1643	1662
65°	1509	1532	1541
70°	1385	1402	1385
75°	1247	1240	1203
80°	1056	1045	1012
85°	789	767	679



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.6
10°-20°	433.5	10.3
20°-30°	649.9	15.4
30°-40°	765.4	18.2
40°-50°	765.5	18.2
50°-60°	660.5	15.7
60°-70°	475.3	11.3
70°-80°	252.1	6.0
80°-90°	60.1	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°	1235.1	29.3
0°-40°	2000.5	47.5
0°-60°	3426.5	81.3
0°-90°	4214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1597	1596	1594	1600	1603	151
15°	1522	1526	1533	1549	1554	429
25°	1383	1391	1411	1435	1442	636
35°	1188	1202	1226	1248	1255	743
45°	961	974	996	1014	1018	741
55°	718	725	741	754	752	643
65°	474	476	481	484	484	469
75°	240	237	238	233	231	255
85°	51	51	50	45	44	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1602.7	1602.7	1602.7	1602.7	1602.7
2.5°	1604.1	1601.2	1597.0	1602.7	1605.5
5°	1597.0	1595.6	1594.1	1599.8	1602.7
7.5°	1584.2	1585.6	1584.2	1592.7	1595.6
10°	1568.6	1570.0	1571.4	1581.4	1584.2
12.5°	1548.7	1550.1	1554.4	1567.2	1571.4
15°	1521.7	1526.0	1533.1	1548.7	1554.4
17.5°	1493.4	1499.0	1509.0	1527.4	1533.1
20°	1459.3	1466.4	1480.6	1500.5	1507.6
22.5°	1421.0	1428.1	1447.9	1469.2	1476.3
25°	1382.6	1391.2	1411.0	1435.2	1442.3
27.5°	1337.2	1348.6	1369.9	1394.0	1399.7
30°	1290.4	1300.3	1325.9	1348.6	1358.5
32.5°	1243.5	1253.5	1277.6	1300.3	1307.4
35°	1188.2	1202.4	1226.5	1247.8	1254.9
37.5°	1134.2	1147.0	1172.5	1193.8	1200.9
40°	1077.4	1088.8	1115.8	1135.6	1141.3
42.5°	1020.7	1032.0	1059.0	1074.6	1080.3
45°	961.0	973.8	996.5	1013.6	1017.8
47.5°	901.4	911.3	932.6	948.3	953.9
50°	840.4	850.3	871.6	884.4	887.2
52.5°	779.3	786.4	806.3	817.7	821.9
55°	718.3	725.4	741.0	753.8	752.4
57.5°	660.1	662.9	678.5	687.1	687.1
60°	594.8	597.6	610.4	616.1	617.5
62.5°	533.7	538.0	547.9	549.4	549.4
65°	474.1	475.5	481.2	484.1	484.1
67.5°	414.5	413.1	418.8	418.8	417.3
70°	352.0	354.9	356.3	353.5	352.0
72.5°	295.3	293.8	293.8	292.4	292.4
75°	239.9	237.1	238.5	232.8	231.4
77.5°	188.8	184.5	183.1	180.3	177.4
80°	136.3	136.3	134.9	132.0	130.6
82.5°	90.9	90.9	89.4	86.6	83.8
85°	51.1	51.1	49.7	45.4	44.0
87.5°	17.0	17.0	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)