

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: P297851

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L83050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4260.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

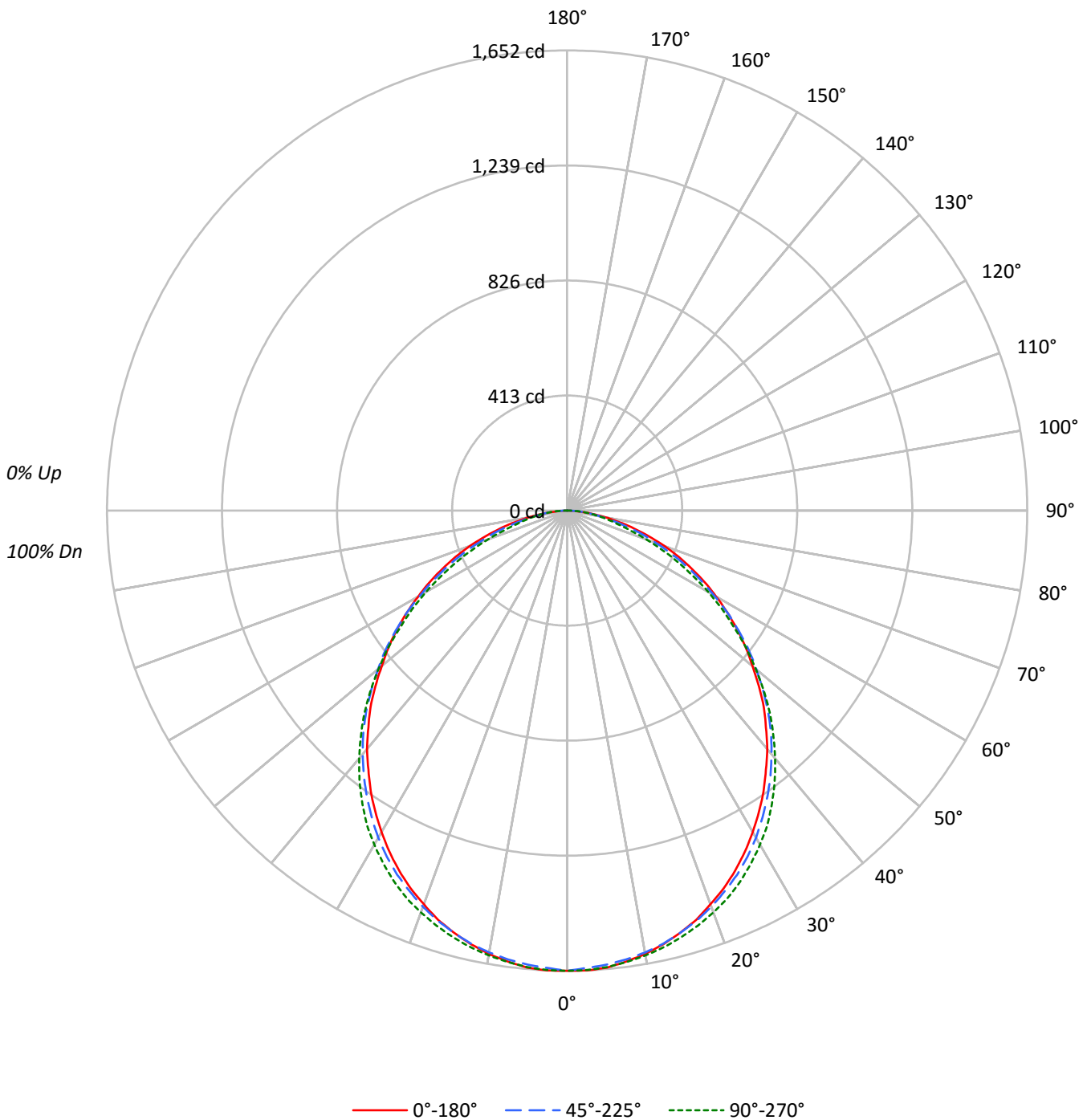
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4446	4446	4446
5°	4449	4420	4444
10°	4416	4401	4431
15°	4372	4372	4417
20°	4308	4334	4395
25°	4236	4284	4364
30°	4141	4214	4304
35°	4040	4117	4212
40°	3927	4009	4079
45°	3800	3883	3917
50°	3636	3712	3697
55°	3499	3524	3431
60°	3324	3275	3149
65°	3139	3012	2805
70°	2913	2671	2373
75°	2591	2290	1953
80°	2154	1875	1819
85°	1562	1673	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.7
10°-20°	444.2	10.4
20°-30°	665.7	15.6
30°-40°	784.3	18.4
40°-50°	782.3	18.4
50°-60°	665.4	15.6
60°-70°	464.4	10.9
70°-80°	236.1	5.5
80°-90°	61.7	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°	1265.8	29.7
0°-40°	2050.2	48.1
0°-60°	3497.9	82.1
0°-90°	4260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1647	1643	1636	1645	1645	156
15°	1569	1569	1569	1584	1586	442
25°	1427	1428	1443	1464	1470	657
35°	1230	1232	1253	1278	1282	768
45°	999	1002	1020	1028	1029	768
55°	746	746	751	740	731	666
65°	493	486	473	448	441	489
75°	249	240	220	193	188	265
85°	51	52	54	54	54	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.3	1652.3	1652.3	1652.3	1652.3
2.5°	1652.3	1650.5	1643.3	1650.5	1650.5
5°	1646.9	1643.3	1636.1	1645.1	1645.1
7.5°	1632.4	1630.6	1625.2	1634.2	1634.2
10°	1616.2	1614.4	1610.8	1621.6	1621.6
12.5°	1594.5	1594.5	1592.7	1603.5	1605.4
15°	1569.2	1569.2	1569.2	1583.7	1585.5
17.5°	1540.3	1538.5	1544.0	1560.2	1562.0
20°	1504.2	1506.0	1513.3	1531.3	1534.9
22.5°	1468.1	1469.9	1478.9	1500.6	1506.0
25°	1426.6	1428.4	1442.8	1464.5	1469.9
27.5°	1381.4	1385.0	1401.3	1424.8	1428.4
30°	1332.7	1336.3	1356.2	1379.6	1385.0
32.5°	1282.1	1287.5	1305.6	1330.9	1338.1
35°	1229.7	1231.6	1253.2	1278.5	1282.1
37.5°	1172.0	1177.4	1199.1	1220.7	1224.3
40°	1117.8	1121.4	1141.3	1159.3	1161.1
42.5°	1056.4	1061.8	1083.5	1096.1	1096.1
45°	998.6	1002.2	1020.3	1027.5	1029.3
47.5°	933.6	937.2	953.5	957.1	957.1
50°	868.6	877.6	886.6	886.6	883.0
52.5°	809.0	810.8	821.6	814.4	810.8
55°	745.8	745.8	751.2	740.4	731.3
57.5°	682.6	682.6	682.6	668.1	660.9
60°	617.6	615.8	608.6	590.5	585.1
62.5°	556.2	550.8	539.9	521.9	511.0
65°	493.0	485.8	473.1	447.8	440.6
67.5°	433.4	420.8	406.3	382.8	370.2
70°	370.2	359.4	339.5	312.4	301.6
72.5°	308.8	298.0	281.7	254.6	238.4
75°	249.2	240.2	220.3	193.2	187.8
77.5°	191.4	186.0	166.1	153.5	151.7
80°	139.0	137.2	121.0	117.4	117.4
82.5°	92.1	90.3	84.9	84.9	83.1
85°	50.6	52.4	54.2	54.2	54.2
87.5°	18.1	21.7	25.3	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)