

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: P298375

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4067.0 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

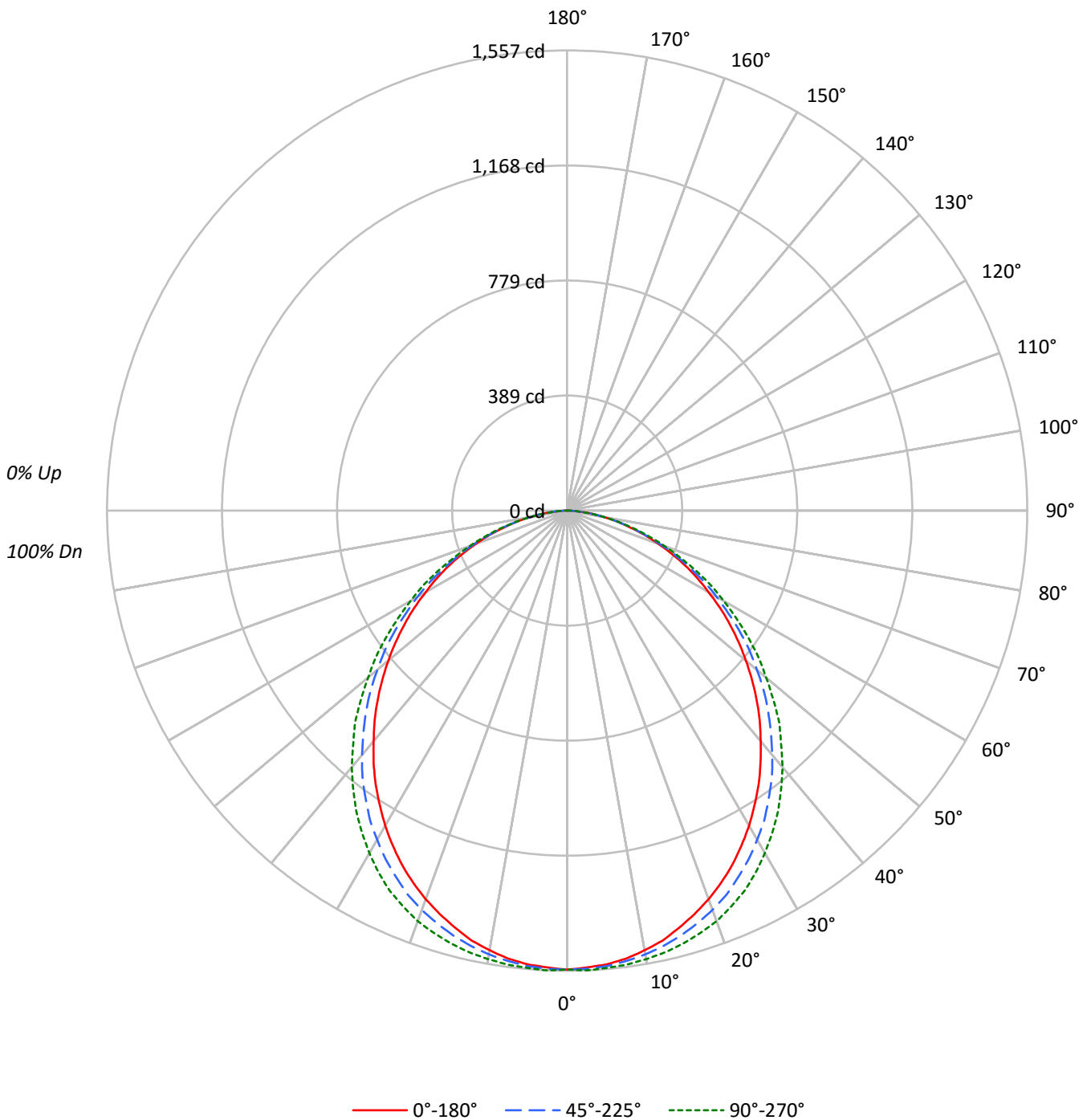
Input Watts (W): 32.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4180	4180	4180
5°	4163	4179	4196
10°	4128	4167	4211
15°	4073	4147	4225
20°	4007	4117	4233
25°	3926	4064	4215
30°	3826	3996	4159
35°	3712	3905	4084
40°	3578	3791	3984
45°	3452	3661	3861
50°	3306	3509	3679
55°	3154	3344	3506
60°	2975	3150	3291
65°	2811	2914	3056
70°	2581	2661	2756
75°	2295	2358	2421
80°	1977	1945	1945
85°	1501	1374	1250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.6
10°-20°	420.0	10.3
20°-30°	630.5	15.5
30°-40°	742.1	18.2
40°-50°	740.2	18.2
50°-60°	635.2	15.6
60°-70°	454.9	11.2
70°-80°	240.9	5.9
80°-90°	56.3	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°	1197.4	29.4
0°-40°	1939.5	47.7
0°-60°	3314.9	81.5
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1541	1541	1547	1551	1553	146
15°	1462	1468	1488	1509	1517	412
25°	1322	1334	1369	1403	1420	608
35°	1130	1144	1189	1229	1243	706
45°	907	921	962	996	1014	699
55°	672	682	713	737	747	601
65°	441	444	458	476	480	436
75°	221	221	227	231	233	237
85°	49	47	44	40	40	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.2	1553.2	1553.2	1553.2	1553.2
2.5°	1547.1	1547.1	1551.1	1555.2	1557.2
5°	1541.0	1541.0	1547.1	1551.1	1553.2
7.5°	1528.9	1528.9	1537.0	1545.1	1549.1
10°	1510.6	1514.7	1524.8	1537.0	1541.0
12.5°	1490.4	1494.4	1508.6	1524.8	1530.9
15°	1462.0	1468.1	1488.4	1508.6	1516.7
17.5°	1431.7	1439.8	1464.1	1488.4	1498.5
20°	1399.3	1407.4	1437.7	1466.1	1478.2
22.5°	1362.8	1372.9	1407.4	1437.7	1449.9
25°	1322.3	1334.5	1368.9	1403.3	1419.5
27.5°	1277.8	1291.9	1330.4	1366.9	1381.0
30°	1231.2	1247.4	1285.9	1324.3	1338.5
32.5°	1180.6	1194.7	1241.3	1277.8	1291.9
35°	1129.9	1144.1	1188.7	1229.2	1243.3
37.5°	1075.3	1093.5	1138.0	1174.5	1188.7
40°	1018.6	1036.8	1079.3	1121.8	1134.0
42.5°	963.9	980.1	1020.6	1059.1	1071.2
45°	907.2	921.4	961.9	996.3	1014.5
47.5°	848.5	862.6	903.1	935.5	945.7
50°	789.7	803.9	838.3	866.7	878.8
52.5°	731.0	745.2	777.6	803.9	816.1
55°	672.3	682.4	712.8	737.1	747.2
57.5°	613.6	621.7	646.0	672.3	678.4
60°	552.8	562.9	585.2	603.4	611.5
62.5°	498.1	502.2	522.4	538.6	548.8
65°	441.4	443.5	457.6	475.9	479.9
67.5°	382.7	384.7	398.9	409.0	413.1
70°	328.0	328.0	338.2	346.3	350.3
72.5°	275.4	273.4	279.4	287.5	291.6
75°	220.7	220.7	226.8	230.8	232.9
77.5°	174.1	170.1	174.1	178.2	178.2
80°	127.6	125.5	125.5	127.6	125.5
82.5°	87.1	85.0	87.1	83.0	81.0
85°	48.6	46.6	44.5	40.5	40.5
87.5°	16.2	14.2	14.2	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)