

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: P297614

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-40L82765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

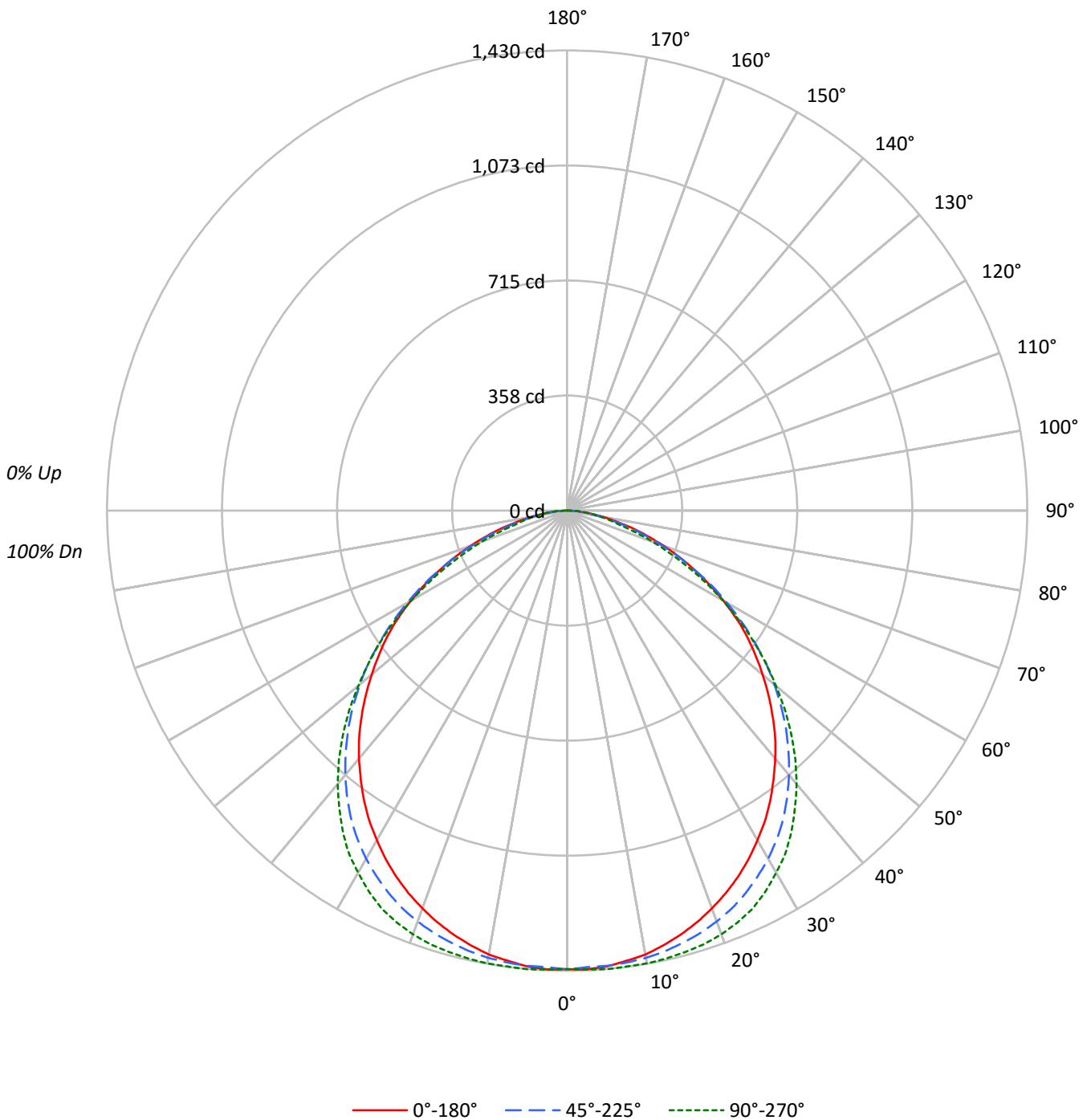
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3835	3835	3835
5°	3841	3836	3864
10°	3828	3856	3904
15°	3801	3874	3956
20°	3767	3891	4011
25°	3729	3895	4051
30°	3674	3881	4038
35°	3615	3845	3994
40°	3534	3768	3896
45°	3436	3663	3749
50°	3320	3517	3546
55°	3204	3327	3311
60°	3018	3083	3008
65°	2781	2791	2636
70°	2488	2433	2212
75°	2162	2016	1707
80°	1733	1570	1570
85°	1241	1457	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	3.5
10°-20°	393.4	10.1
20°-30°	604.1	15.4
30°-40°	727.6	18.6
40°-50°	735.3	18.8
50°-60°	627.2	16.0
60°-70°	429.3	11.0
70°-80°	207.2	5.3
80°-90°	53.4	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°	1133.1	29.0
0°-40°	1860.7	47.6
0°-60°	3223.1	82.4
0°-90°	3913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1422	1422	1420	1429	1430	135
15°	1364	1375	1390	1415	1420	385
25°	1256	1275	1312	1350	1364	578
35°	1100	1125	1170	1207	1216	688
45°	903	928	962	985	985	696
55°	683	695	709	713	706	608
65°	437	442	438	423	414	433
75°	208	208	194	171	164	221
85°	40	44	47	49	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1427.0	1425.3	1420.1	1427.0	1427.0
5°	1421.8	1421.8	1420.1	1428.8	1430.5
7.5°	1411.3	1414.8	1416.6	1427.0	1428.8
10°	1400.8	1404.3	1411.3	1425.3	1428.8
12.5°	1383.4	1390.4	1402.6	1421.8	1425.3
15°	1364.2	1374.6	1390.4	1414.8	1420.1
17.5°	1341.5	1355.4	1376.4	1404.3	1413.1
20°	1315.3	1331.0	1358.9	1390.4	1400.8
22.5°	1287.3	1304.8	1338.0	1374.6	1385.1
25°	1255.9	1275.1	1311.8	1350.2	1364.2
27.5°	1220.9	1241.9	1282.1	1322.2	1334.5
30°	1182.5	1205.2	1248.9	1289.1	1299.5
32.5°	1144.1	1166.8	1212.2	1250.6	1262.9
35°	1100.4	1124.9	1170.3	1207.0	1215.7
37.5°	1053.3	1077.7	1123.1	1159.8	1163.3
40°	1006.1	1030.5	1072.5	1105.7	1109.1
42.5°	957.2	979.9	1018.3	1046.3	1049.8
45°	903.0	927.5	962.4	985.1	985.1
47.5°	848.9	873.3	903.0	918.8	918.8
50°	793.0	815.7	840.2	848.9	847.1
52.5°	737.1	758.1	779.0	780.8	777.3
55°	683.0	695.2	709.2	712.6	705.7
57.5°	623.6	634.0	642.8	637.5	632.3
60°	560.7	571.2	572.9	564.2	558.9
62.5°	499.6	508.3	508.3	494.3	485.6
65°	436.7	441.9	438.4	422.7	414.0
67.5°	377.3	380.8	373.8	358.1	344.1
70°	316.2	317.9	309.2	289.9	281.2
72.5°	260.3	262.0	251.5	228.8	218.3
75°	207.9	207.9	193.9	171.2	164.2
77.5°	155.5	160.7	145.0	132.7	132.7
80°	111.8	117.0	101.3	103.1	101.3
82.5°	73.4	78.6	73.4	73.4	73.4
85°	40.2	43.7	47.2	48.9	48.9
87.5°	12.2	21.0	22.7	24.5	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)