

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: P297847

Luminaire Tested: **D3X-WO-35L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297847
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-35L83050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3779.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

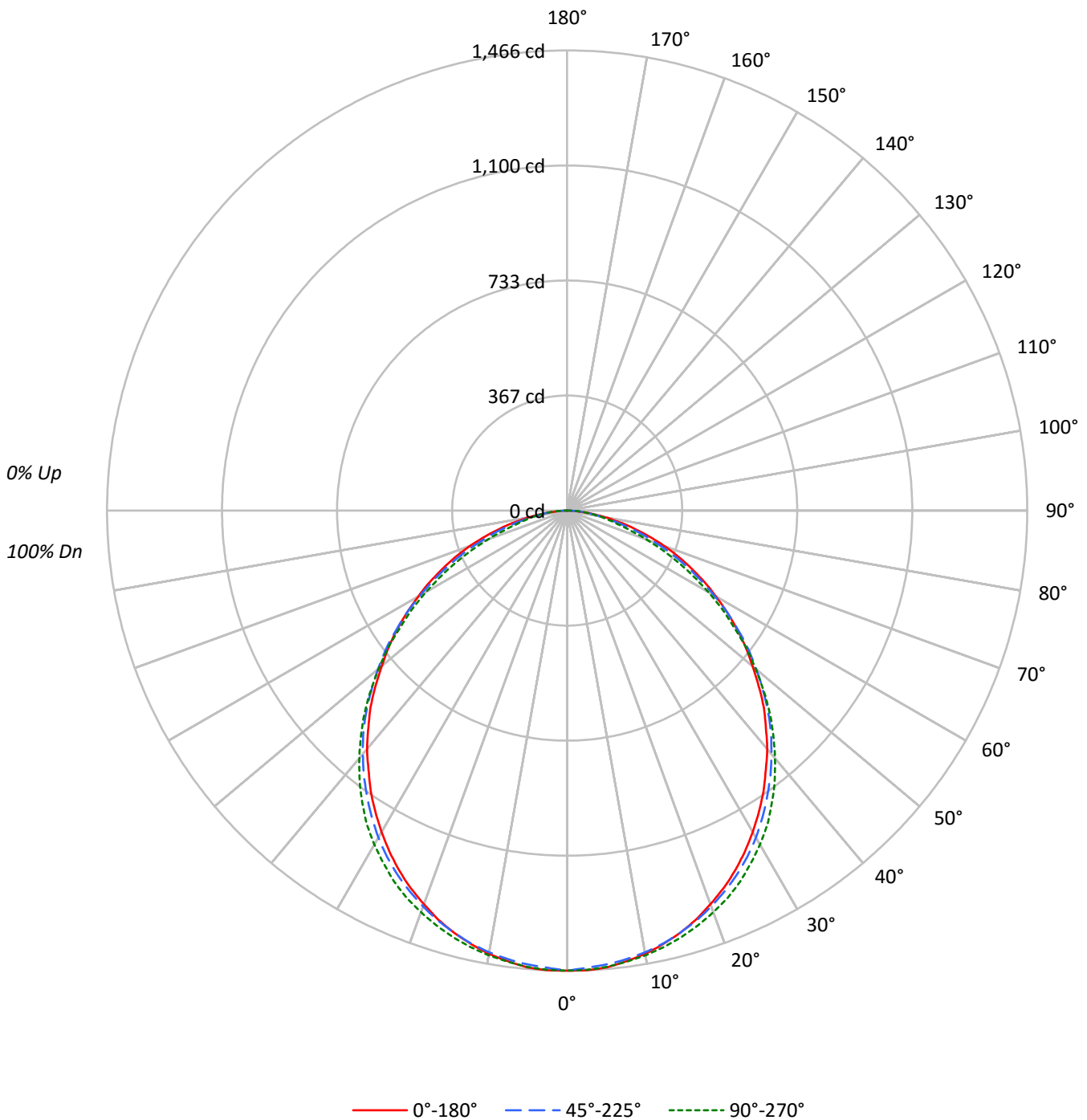
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3944	3944	3944
5°	3946	3920	3942
10°	3918	3904	3931
15°	3878	3878	3918
20°	3821	3844	3899
25°	3757	3800	3872
30°	3673	3738	3818
35°	3584	3652	3736
40°	3483	3556	3618
45°	3371	3444	3475
50°	3226	3293	3279
55°	3104	3126	3044
60°	2949	2905	2793
65°	2784	2672	2489
70°	2584	2370	2105
75°	2299	2032	1732
80°	1911	1663	1613
85°	1386	1485	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	3.7
10°-20°	394.0	10.4
20°-30°	590.6	15.6
30°-40°	695.8	18.4
40°-50°	694.0	18.4
50°-60°	590.3	15.6
60°-70°	412.0	10.9
70°-80°	209.4	5.5
80°-90°	54.7	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°	1122.9	29.7
0°-40°	1818.7	48.1
0°-60°	3102.9	82.1
0°-90°	3779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1466	1466	1466	1466	1466	
5°	1461	1458	1451	1459	1459	138
15°	1392	1392	1392	1405	1406	392
25°	1266	1267	1280	1299	1304	582
35°	1091	1092	1112	1134	1137	682
45°	886	889	905	912	913	682
55°	662	662	666	657	649	591
65°	437	431	420	397	391	434
75°	221	213	195	171	167	235
85°	45	46	48	48	48	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465.7	1465.7	1465.7	1465.7	1465.7
2.5°	1465.7	1464.1	1457.7	1464.1	1464.1
5°	1460.9	1457.7	1451.3	1459.3	1459.3
7.5°	1448.1	1446.5	1441.7	1449.7	1449.7
10°	1433.7	1432.1	1428.9	1438.5	1438.5
12.5°	1414.5	1414.5	1412.9	1422.5	1424.1
15°	1392.1	1392.1	1392.1	1404.9	1406.5
17.5°	1366.4	1364.8	1369.6	1384.0	1385.6
20°	1334.4	1336.0	1342.4	1358.4	1361.6
22.5°	1302.3	1304.0	1312.0	1331.2	1336.0
25°	1265.5	1267.1	1279.9	1299.1	1304.0
27.5°	1225.5	1228.7	1243.1	1263.9	1267.1
30°	1182.2	1185.4	1203.0	1223.9	1228.7
32.5°	1137.4	1142.2	1158.2	1180.6	1187.0
35°	1090.9	1092.5	1111.7	1134.1	1137.4
37.5°	1039.6	1044.4	1063.7	1082.9	1086.1
40°	991.6	994.8	1012.4	1028.4	1030.0
42.5°	937.1	941.9	961.1	972.4	972.4
45°	885.9	889.1	905.1	911.5	913.1
47.5°	828.2	831.4	845.8	849.0	849.0
50°	770.5	778.5	786.5	786.5	783.3
52.5°	717.7	719.3	728.9	722.5	719.3
55°	661.6	661.6	666.4	656.8	648.8
57.5°	605.5	605.5	605.5	592.7	586.3
60°	547.9	546.2	539.8	523.8	519.0
62.5°	493.4	488.6	479.0	463.0	453.3
65°	437.3	430.9	419.7	397.3	390.9
67.5°	384.5	373.2	360.4	339.6	328.4
70°	328.4	318.8	301.2	277.1	267.5
72.5°	273.9	264.3	249.9	225.9	211.5
75°	221.1	213.1	195.4	171.4	166.6
77.5°	169.8	165.0	147.4	136.2	134.6
80°	123.3	121.7	107.3	104.1	104.1
82.5°	81.7	80.1	75.3	75.3	73.7
85°	44.9	46.5	48.1	48.1	48.1
87.5°	16.0	19.2	22.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)