

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: P297921

Luminaire Tested: **D3X-WO-40L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297921
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-40L93050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3724.0 lumens
Efficiency: N/A
Efficacy: 92.0 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

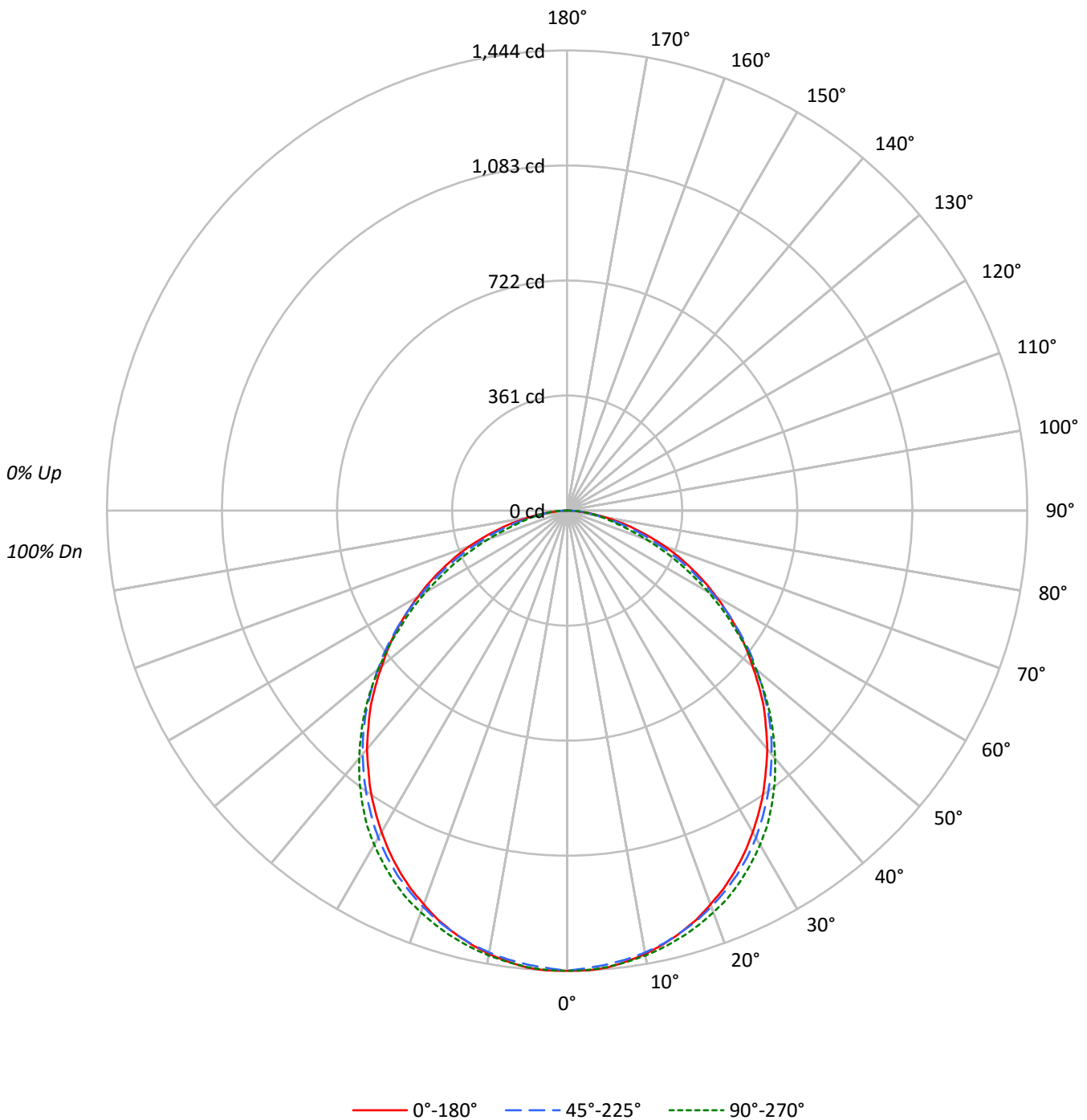
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3887	3887	3887
5°	3889	3863	3885
10°	3860	3848	3874
15°	3822	3822	3861
20°	3766	3788	3842
25°	3703	3745	3815
30°	3620	3684	3762
35°	3531	3599	3682
40°	3432	3505	3566
45°	3322	3394	3424
50°	3179	3245	3231
55°	3059	3081	2999
60°	2906	2863	2753
65°	2744	2634	2453
70°	2546	2335	2074
75°	2264	2002	1707
80°	1884	1640	1590
85°	1365	1463	1463



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.7
10°-20°	388.3	10.4
20°-30°	582.0	15.6
30°-40°	685.6	18.4
40°-50°	683.9	18.4
50°-60°	581.7	15.6
60°-70°	406.0	10.9
70°-80°	206.4	5.5
80°-90°	53.9	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°	1106.6	29.7
0°-40°	1792.2	48.1
0°-60°	3057.8	82.1
0°-90°	3724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1440	1436	1430	1438	1438	136
15°	1372	1372	1372	1384	1386	387
25°	1247	1249	1261	1280	1285	574
35°	1075	1077	1096	1118	1121	672
45°	873	876	892	898	900	672
55°	652	652	657	647	639	583
65°	431	425	414	392	385	427
75°	218	210	193	169	164	231
85°	44	46	47	47	47	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.4	1444.4	1444.4	1444.4	1444.4
2.5°	1444.4	1442.8	1436.5	1442.8	1442.8
5°	1439.7	1436.5	1430.2	1438.1	1438.1
7.5°	1427.0	1425.5	1420.7	1428.6	1428.6
10°	1412.8	1411.3	1408.1	1417.6	1417.6
12.5°	1393.9	1393.9	1392.3	1401.8	1403.4
15°	1371.8	1371.8	1371.8	1384.4	1386.0
17.5°	1346.5	1345.0	1349.7	1363.9	1365.5
20°	1315.0	1316.5	1322.9	1338.6	1341.8
22.5°	1283.4	1285.0	1292.9	1311.8	1316.5
25°	1247.1	1248.7	1261.3	1280.2	1285.0
27.5°	1207.6	1210.8	1225.0	1245.5	1248.7
30°	1165.0	1168.2	1185.5	1206.0	1210.8
32.5°	1120.8	1125.5	1141.3	1163.4	1169.7
35°	1075.0	1076.6	1095.5	1117.6	1120.8
37.5°	1024.5	1029.2	1048.2	1067.1	1070.3
40°	977.1	980.3	997.7	1013.5	1015.0
42.5°	923.5	928.2	947.2	958.2	958.2
45°	873.0	876.1	891.9	898.2	899.8
47.5°	816.1	819.3	833.5	836.7	836.7
50°	759.3	767.2	775.1	775.1	771.9
52.5°	707.2	708.8	718.3	711.9	708.8
55°	652.0	652.0	656.7	647.2	639.3
57.5°	596.7	596.7	596.7	584.1	577.8
60°	539.9	538.3	532.0	516.2	511.5
62.5°	486.2	481.5	472.0	456.2	446.7
65°	431.0	424.6	413.6	391.5	385.2
67.5°	378.9	367.8	355.2	334.7	323.6
70°	323.6	314.1	296.8	273.1	263.6
72.5°	269.9	260.5	246.3	222.6	208.4
75°	217.8	210.0	192.6	168.9	164.2
77.5°	167.3	162.6	145.2	134.2	132.6
80°	121.6	120.0	105.8	102.6	102.6
82.5°	80.5	78.9	74.2	74.2	72.6
85°	44.2	45.8	47.4	47.4	47.4
87.5°	15.8	18.9	22.1	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)