

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: P297570

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297570
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-40L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852.0 lumens
Efficiency: N/A
Efficacy: 97.8 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

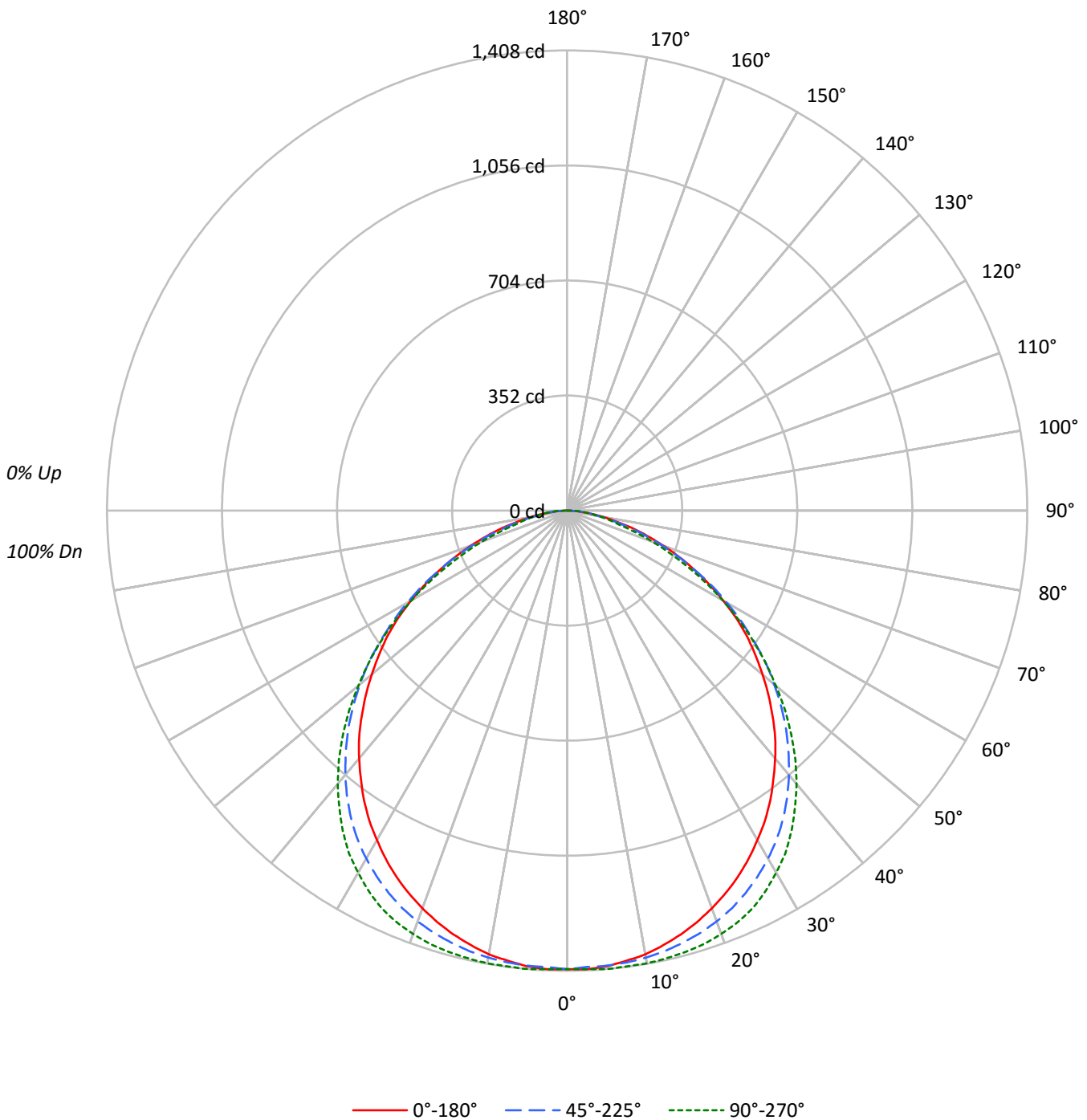
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3776	3776	3776
5°	3781	3776	3804
10°	3768	3796	3843
15°	3741	3813	3894
20°	3708	3831	3949
25°	3671	3834	3987
30°	3617	3820	3975
35°	3559	3784	3931
40°	3479	3708	3836
45°	3383	3605	3691
50°	3268	3463	3491
55°	3154	3275	3259
60°	2970	3035	2961
65°	2737	2748	2595
70°	2448	2394	2178
75°	2127	1985	1680
80°	1705	1545	1545
85°	1220	1433	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.5
10°-20°	387.3	10.1
20°-30°	594.7	15.4
30°-40°	716.2	18.6
40°-50°	723.8	18.8
50°-60°	617.4	16.0
60°-70°	422.6	11.0
70°-80°	203.9	5.3
80°-90°	52.6	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°	1115.5	29.0
0°-40°	1831.7	47.6
0°-60°	3172.9	82.4
0°-90°	3852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1400	1400	1398	1406	1408	133
15°	1343	1353	1369	1393	1398	379
25°	1236	1255	1291	1329	1343	569
35°	1083	1107	1152	1188	1197	677
45°	889	913	947	970	970	686
55°	672	684	698	702	695	599
65°	430	435	432	416	408	426
75°	205	205	191	168	162	217
85°	40	43	46	48	48	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.1	1403.1	1403.1	1403.1	1403.1
2.5°	1404.8	1403.1	1397.9	1404.8	1404.8
5°	1399.6	1399.6	1397.9	1406.5	1408.2
7.5°	1389.3	1392.8	1394.5	1404.8	1406.5
10°	1379.0	1382.4	1389.3	1403.1	1406.5
12.5°	1361.8	1368.7	1380.7	1399.6	1403.1
15°	1342.9	1353.2	1368.7	1392.8	1397.9
17.5°	1320.5	1334.3	1354.9	1382.4	1391.0
20°	1294.8	1310.2	1337.7	1368.7	1379.0
22.5°	1267.2	1284.4	1317.1	1353.2	1363.5
25°	1236.3	1255.2	1291.3	1329.1	1342.9
27.5°	1201.9	1222.5	1262.1	1301.6	1313.7
30°	1164.1	1186.4	1229.4	1269.0	1279.3
32.5°	1126.2	1148.6	1193.3	1231.1	1243.2
35°	1083.3	1107.3	1152.0	1188.1	1196.7
37.5°	1036.8	1060.9	1105.6	1141.7	1145.2
40°	990.4	1014.5	1055.7	1088.4	1091.9
42.5°	942.3	964.6	1002.4	1030.0	1033.4
45°	889.0	913.0	947.4	969.8	969.8
47.5°	835.7	859.7	889.0	904.4	904.4
50°	780.6	803.0	827.1	835.7	833.9
52.5°	725.6	746.2	766.9	768.6	765.2
55°	672.3	684.3	698.1	701.5	694.7
57.5°	613.8	624.2	632.8	627.6	622.4
60°	551.9	562.3	564.0	555.4	550.2
62.5°	491.8	500.4	500.4	486.6	478.0
65°	429.9	435.0	431.6	416.1	407.5
67.5°	371.4	374.8	368.0	352.5	338.7
70°	311.2	312.9	304.3	285.4	276.8
72.5°	256.2	257.9	247.6	225.2	214.9
75°	204.6	204.6	190.9	168.5	161.6
77.5°	153.0	158.2	142.7	130.7	130.7
80°	110.0	115.2	99.7	101.4	99.7
82.5°	72.2	77.4	72.2	72.2	72.2
85°	39.5	43.0	46.4	48.1	48.1
87.5°	12.0	20.6	22.4	24.1	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)