

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: P297991

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
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-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3890.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

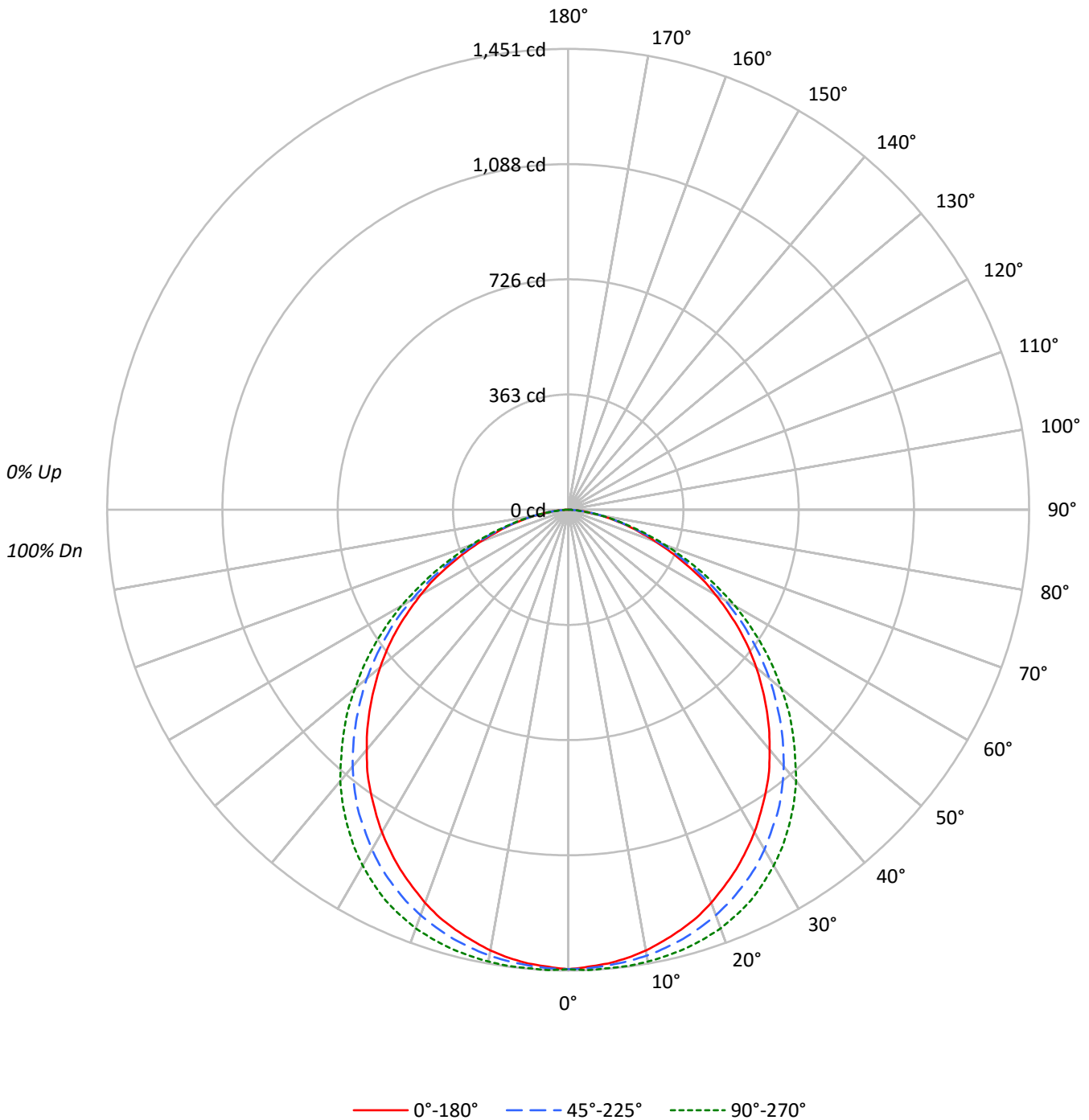
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3894	3894	3894
5°	3874	3891	3914
10°	3851	3896	3948
15°	3815	3897	3984
20°	3771	3891	4017
25°	3711	3873	4035
30°	3644	3839	4021
35°	3563	3790	3983
40°	3464	3707	3920
45°	3355	3594	3809
50°	3234	3463	3664
55°	3085	3291	3497
60°	2885	3065	3268
65°	2613	2773	2946
70°	2306	2422	2553
75°	1981	2024	2112
80°	1590	1623	1655
85°	1164	1034	1034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	3.5
10°-20°	395.0	10.2
20°-30°	600.8	15.4
30°-40°	718.8	18.5
40°-50°	726.6	18.7
50°-60°	625.3	16.1
60°-70°	431.7	11.1
70°-80°	209.3	5.4
80°-90°	45.4	1.2
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°	1132.8	29.1
0°-40°	1851.6	47.6
0°-60°	3203.5	82.4
0°-90°	3890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1434	1436	1441	1447	1449	136
15°	1369	1378	1399	1420	1430	386
25°	1250	1265	1304	1344	1359	576
35°	1085	1104	1154	1196	1212	678
45°	882	898	944	984	1001	680
55°	658	668	701	733	745	586
65°	410	417	436	454	463	408
75°	190	186	195	201	203	202
85°	38	38	34	34	34	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.9	1446.9	1446.9	1446.9	1446.9
2.5°	1440.6	1440.6	1444.8	1448.9	1451.0
5°	1434.3	1436.4	1440.6	1446.9	1448.9
7.5°	1423.8	1425.9	1434.3	1444.8	1448.9
10°	1409.2	1413.3	1425.9	1438.5	1444.8
12.5°	1390.3	1398.7	1413.3	1430.1	1438.5
15°	1369.4	1377.8	1398.7	1419.6	1430.1
17.5°	1346.3	1354.7	1379.8	1407.1	1417.5
20°	1317.0	1329.6	1358.9	1390.3	1402.9
22.5°	1283.5	1300.3	1333.8	1367.3	1381.9
25°	1250.0	1264.7	1304.5	1344.3	1358.9
27.5°	1212.3	1229.1	1273.1	1312.8	1327.5
30°	1172.6	1189.3	1235.4	1279.3	1294.0
32.5°	1128.6	1149.5	1193.5	1239.6	1256.3
35°	1084.6	1103.5	1153.7	1195.6	1212.3
37.5°	1038.6	1055.3	1105.6	1149.5	1166.3
40°	986.2	1005.0	1055.3	1099.3	1116.0
42.5°	936.0	954.8	1000.9	1042.7	1057.4
45°	881.5	898.3	944.3	984.1	1000.9
47.5°	827.1	845.9	885.7	925.5	942.2
50°	772.6	787.3	827.1	864.8	875.2
52.5°	716.1	728.7	764.3	797.8	812.4
55°	657.5	667.9	701.4	732.8	745.4
57.5°	594.7	607.2	638.6	661.7	676.3
60°	536.0	542.3	569.5	592.6	607.2
62.5°	477.4	479.5	500.4	523.5	531.8
65°	410.4	416.7	435.5	454.4	462.7
67.5°	349.7	356.0	370.6	385.3	391.6
70°	293.1	293.1	307.8	318.3	324.5
72.5°	236.6	238.7	249.2	255.4	261.7
75°	190.5	186.4	194.7	201.0	203.1
77.5°	142.4	140.3	146.6	148.7	152.9
80°	102.6	102.6	104.7	106.8	106.8
82.5°	67.0	67.0	69.1	64.9	62.8
85°	37.7	37.7	33.5	33.5	33.5
87.5°	12.6	12.6	12.6	14.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)