

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: P297990

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297990
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-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3705.0 lumens
Efficiency: N/A
Efficacy: 115.4 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

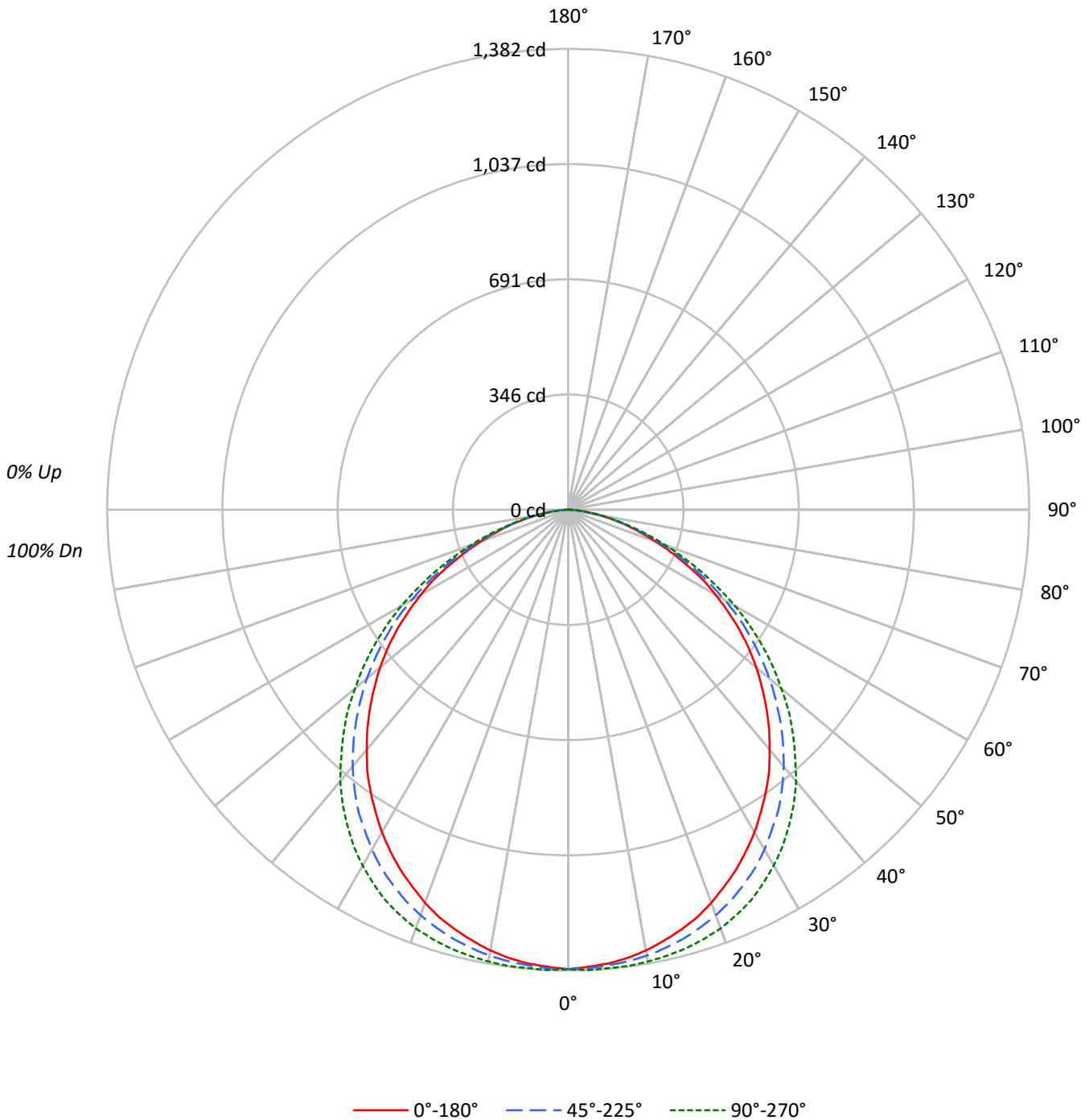
Input Watts (W): 32.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	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	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3708	3708	3708
5°	3690	3706	3728
10°	3667	3711	3760
15°	3634	3711	3795
20°	3592	3706	3826
25°	3535	3689	3843
30°	3470	3656	3830
35°	3393	3610	3793
40°	3300	3531	3734
45°	3195	3423	3628
50°	3081	3298	3490
55°	2938	3134	3331
60°	2747	2919	3112
65°	2489	2641	2806
70°	2197	2307	2432
75°	1887	1929	2011
80°	1514	1545	1576
85°	1108	985	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.5
10°-20°	376.2	10.2
20°-30°	572.2	15.4
30°-40°	684.6	18.5
40°-50°	692.1	18.7
50°-60°	595.6	16.1
60°-70°	411.2	11.1
70°-80°	199.4	5.4
80°-90°	43.2	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°	1079.0	29.1
0°-40°	1763.5	47.6
0°-60°	3051.2	82.4
0°-90°	3705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3705.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1366	1368	1372	1378	1380	130
15°	1304	1312	1332	1352	1362	368
25°	1191	1204	1242	1280	1294	548
35°	1033	1051	1099	1139	1155	646
45°	840	856	899	937	953	648
55°	626	636	668	698	710	558
65°	391	397	415	433	441	389
75°	182	178	186	192	193	193
85°	36	36	32	32	32	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.0	1378.0	1378.0	1378.0	1378.0
2.5°	1372.1	1372.1	1376.0	1380.0	1382.0
5°	1366.1	1368.1	1372.1	1378.0	1380.0
7.5°	1356.1	1358.1	1366.1	1376.0	1380.0
10°	1342.1	1346.1	1358.1	1370.1	1376.0
12.5°	1324.2	1332.2	1346.1	1362.1	1370.1
15°	1304.3	1312.2	1332.2	1352.1	1362.1
17.5°	1282.3	1290.3	1314.2	1340.2	1350.1
20°	1254.4	1266.4	1294.3	1324.2	1336.2
22.5°	1222.5	1238.4	1270.4	1302.3	1316.2
25°	1190.6	1204.5	1242.4	1280.3	1294.3
27.5°	1154.7	1170.6	1212.5	1250.4	1264.4
30°	1116.8	1132.7	1176.6	1218.5	1232.5
32.5°	1074.9	1094.9	1136.7	1180.6	1196.6
35°	1033.0	1051.0	1098.8	1138.7	1154.7
37.5°	989.2	1005.1	1053.0	1094.9	1110.8
40°	939.3	957.3	1005.1	1047.0	1062.9
42.5°	891.4	909.4	953.3	993.1	1007.1
45°	839.6	855.5	899.4	937.3	953.3
47.5°	787.7	805.7	843.6	881.5	897.4
50°	735.9	749.8	787.7	823.6	833.6
52.5°	682.0	694.0	727.9	759.8	773.8
55°	626.2	636.2	668.1	698.0	710.0
57.5°	566.4	578.3	608.3	630.2	644.1
60°	510.5	516.5	542.4	564.4	578.3
62.5°	454.7	456.7	476.6	498.6	506.5
65°	390.9	396.9	414.8	432.8	440.7
67.5°	333.0	339.0	353.0	366.9	372.9
70°	279.2	279.2	293.2	303.1	309.1
72.5°	225.4	227.3	237.3	243.3	249.3
75°	181.5	177.5	185.5	191.5	193.4
77.5°	135.6	133.6	139.6	141.6	145.6
80°	97.7	97.7	99.7	101.7	101.7
82.5°	63.8	63.8	65.8	61.8	59.8
85°	35.9	35.9	31.9	31.9	31.9
87.5°	12.0	12.0	12.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)