

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: P298083

Luminaire Tested: **D3X-WD-20L92765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298083
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-20L92765-LD5-UNV-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1454.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

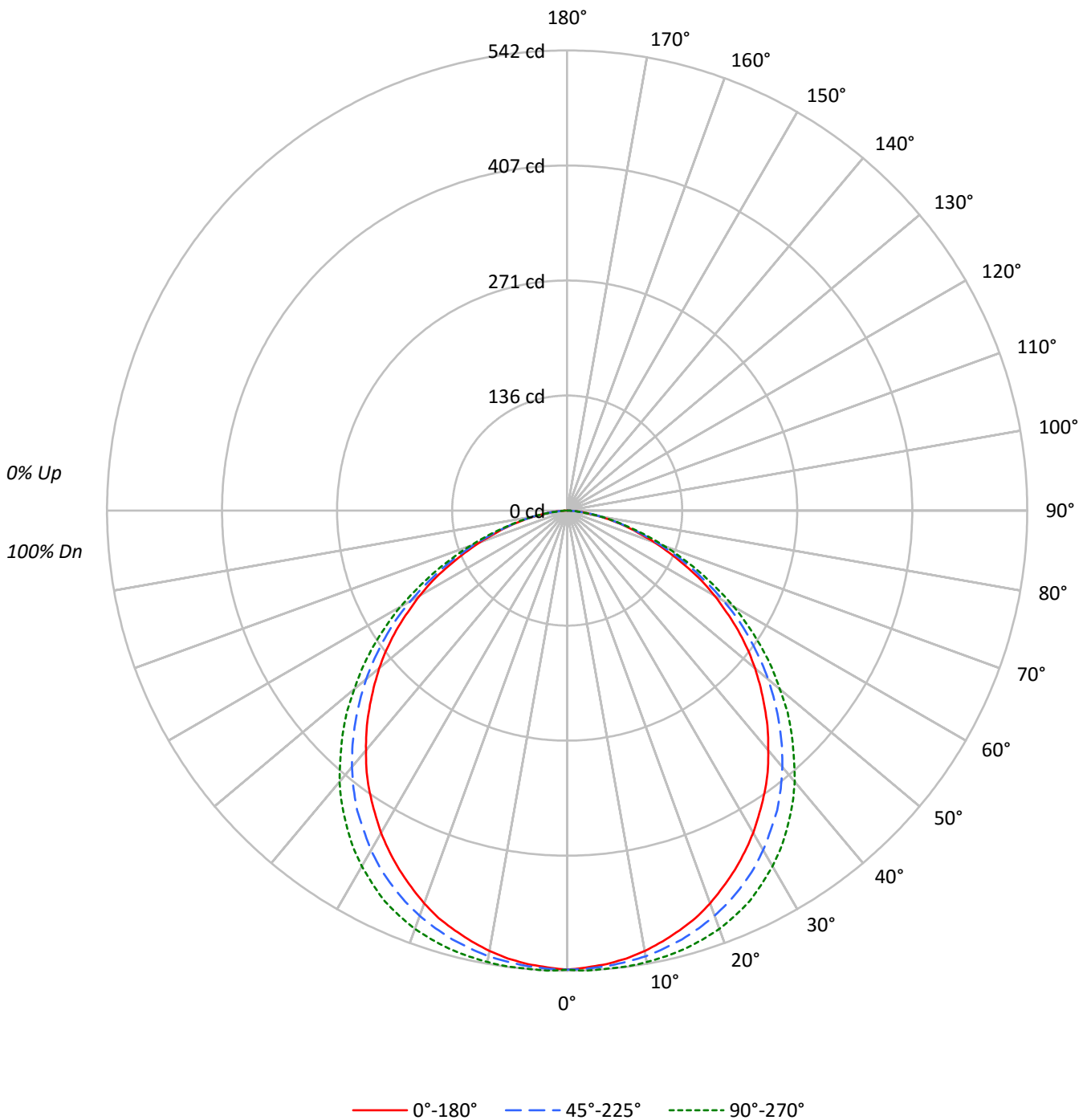
Input Watts (W): 15.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1455	1455	1455
5°	1448	1455	1463
10°	1439	1456	1476
15°	1426	1456	1489
20°	1410	1454	1502
25°	1387	1448	1508
30°	1362	1435	1503
35°	1332	1417	1488
40°	1295	1385	1465
45°	1254	1343	1424
50°	1209	1294	1369
55°	1153	1230	1307
60°	1079	1146	1222
65°	977	1037	1102
70°	862	905	954
75°	740	757	789
80°	594	606	618
85°	435	386	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	3.5
10°-20°	147.6	10.2
20°-30°	224.5	15.4
30°-40°	268.7	18.5
40°-50°	271.6	18.7
50°-60°	233.7	16.1
60°-70°	161.4	11.1
70°-80°	78.2	5.4
80°-90°	17.0	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°	423.4	29.1
0°-40°	692.1	47.6
0°-60°	1197.4	82.4
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	541	541	541	541	541	
5°	536	537	538	541	542	51
15°	512	515	523	531	534	144
25°	467	473	488	502	508	215
35°	405	412	431	447	453	253
45°	330	336	353	368	374	254
55°	246	250	262	274	279	219
65°	153	156	163	170	173	153
75°	71	70	73	75	76	76
85°	14	14	12	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.8	540.8	540.8	540.8	540.8
2.5°	538.5	538.5	540.0	541.6	542.4
5°	536.1	536.9	538.5	540.8	541.6
7.5°	532.2	533.0	536.1	540.0	541.6
10°	526.7	528.3	533.0	537.7	540.0
12.5°	519.7	522.8	528.3	534.5	537.7
15°	511.8	515.0	522.8	530.6	534.5
17.5°	503.2	506.4	515.8	525.9	529.8
20°	492.3	497.0	507.9	519.7	524.4
22.5°	479.8	486.0	498.5	511.1	516.5
25°	467.2	472.7	487.6	502.5	507.9
27.5°	453.1	459.4	475.8	490.7	496.2
30°	438.3	444.5	461.8	478.2	483.7
32.5°	421.8	429.7	446.1	463.3	469.6
35°	405.4	412.4	431.2	446.9	453.1
37.5°	388.2	394.4	413.2	429.7	435.9
40°	368.6	375.7	394.4	410.9	417.1
42.5°	349.8	356.9	374.1	389.8	395.2
45°	329.5	335.8	353.0	367.8	374.1
47.5°	309.1	316.2	331.1	345.9	352.2
50°	288.8	294.3	309.1	323.2	327.1
52.5°	267.7	272.4	285.7	298.2	303.7
55°	245.7	249.7	262.2	273.9	278.6
57.5°	222.3	227.0	238.7	247.3	252.8
60°	200.4	202.7	212.9	221.5	227.0
62.5°	178.4	179.2	187.1	195.7	198.8
65°	153.4	155.7	162.8	169.8	173.0
67.5°	130.7	133.0	138.5	144.0	146.4
70°	109.6	109.6	115.0	119.0	121.3
72.5°	88.4	89.2	93.1	95.5	97.8
75°	71.2	69.7	72.8	75.1	75.9
77.5°	53.2	52.4	54.8	55.6	57.1
80°	38.3	38.3	39.1	39.9	39.9
82.5°	25.0	25.0	25.8	24.3	23.5
85°	14.1	14.1	12.5	12.5	12.5
87.5°	4.7	4.7	4.7	5.5	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)