

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: P298254

Luminaire Tested: **D3X-WG-20L92765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-20L92765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1662.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

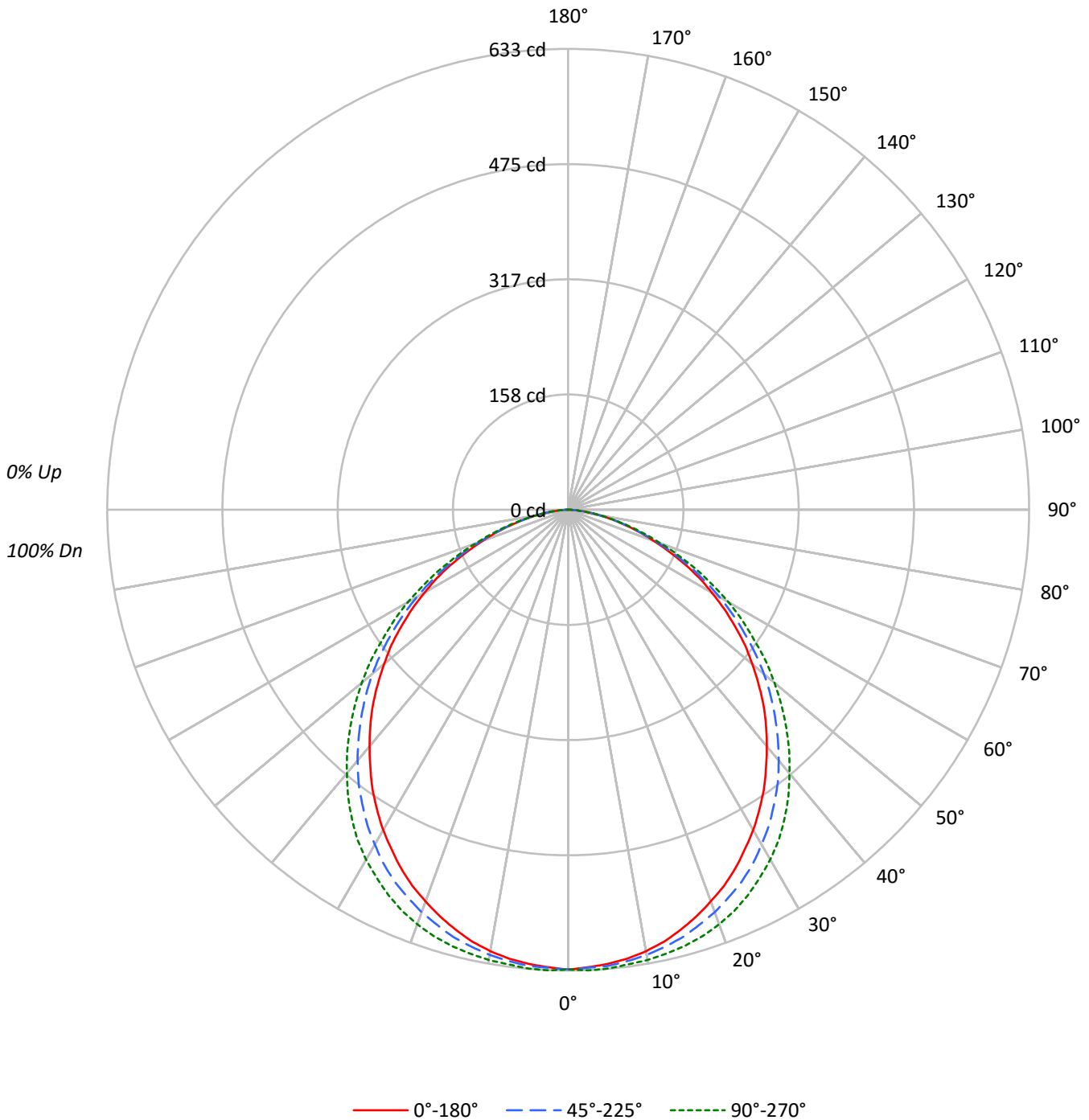
Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1700	1700	1700
5°	1692	1699	1709
10°	1682	1697	1716
15°	1664	1693	1728
20°	1639	1685	1735
25°	1613	1674	1734
30°	1579	1650	1724
35°	1539	1620	1701
40°	1490	1580	1661
45°	1443	1528	1611
50°	1381	1470	1547
55°	1312	1386	1461
60°	1225	1291	1368
65°	1117	1168	1236
70°	979	1020	1062
75°	835	853	890
80°	669	683	697
85°	491	463	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	3.6
10°-20°	171.6	10.3
20°-30°	259.4	15.6
30°-40°	308.1	18.5
40°-50°	309.3	18.6
50°-60°	264.2	15.9
60°-70°	182.0	11.0
70°-80°	88.3	5.3
80°-90°	19.3	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°	490.8	29.5
0°-40°	798.9	48.1
0°-60°	1372.4	82.6
0°-90°	1662.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1662.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	626	626	629	631	632	59
15°	597	600	608	616	620	168
25°	543	548	564	579	584	250
35°	468	476	493	512	518	293
45°	379	385	401	418	423	292
55°	280	284	296	308	311	250
65°	176	176	184	191	194	174
75°	80	78	82	84	86	86
85°	16	16	15	14	14	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	631.6	631.6	631.6	631.6	631.6
2.5°	629.0	629.0	629.8	632.5	633.4
5°	626.3	626.3	629.0	630.7	632.5
7.5°	621.9	622.8	625.4	629.0	629.8
10°	615.7	616.6	621.0	625.4	628.1
12.5°	607.8	609.5	614.8	621.9	624.5
15°	597.2	599.8	607.8	615.7	620.1
17.5°	585.7	589.3	598.1	609.5	614.0
20°	572.5	576.9	588.4	600.7	606.0
22.5°	559.3	562.8	576.0	590.1	596.3
25°	543.4	547.8	563.7	578.7	584.0
27.5°	525.7	531.9	548.7	564.6	569.8
30°	508.1	513.4	531.0	548.7	554.9
32.5°	488.7	494.0	513.4	531.0	538.1
35°	468.4	475.5	493.1	511.6	517.8
37.5°	446.4	454.3	472.8	488.7	496.6
40°	424.3	431.4	449.9	466.6	472.8
42.5°	402.2	408.4	426.1	443.7	449.0
45°	379.3	384.6	401.4	418.1	423.4
47.5°	354.6	360.8	376.7	390.8	397.0
50°	329.9	336.1	351.1	364.3	369.6
52.5°	306.1	309.6	323.7	336.1	342.3
55°	279.6	284.0	295.5	307.9	311.4
57.5°	254.1	256.7	268.2	278.8	284.0
60°	227.6	229.4	239.9	247.9	254.1
62.5°	202.9	202.9	210.8	219.6	223.2
65°	175.5	175.5	183.5	191.4	194.1
67.5°	149.1	150.8	156.1	162.3	164.1
70°	124.4	124.4	129.7	134.1	135.0
72.5°	102.3	101.4	104.1	107.6	109.4
75°	80.3	78.5	82.0	83.8	85.6
77.5°	60.9	60.0	61.7	63.5	63.5
80°	43.2	42.3	44.1	44.1	45.0
82.5°	28.2	29.1	29.1	28.2	27.3
85°	15.9	15.9	15.0	14.1	14.1
87.5°	5.3	5.3	5.3	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)