

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: P298170

Luminaire Tested: **D3X-WG-20L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298170
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-20L82765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1879.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

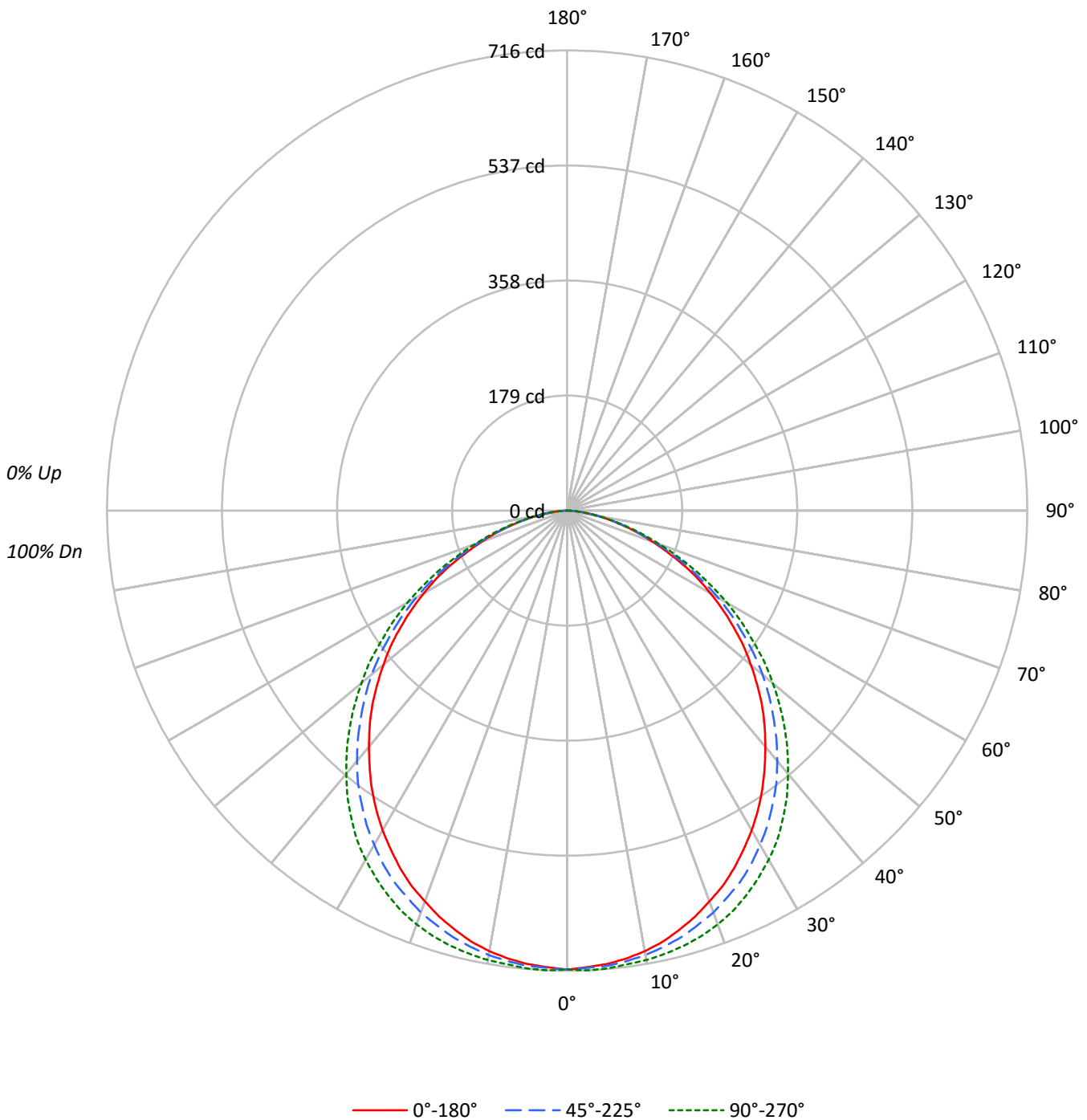
Input Watts (W): 15.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298170

CATALOG NUMBER: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P298170

CATALOG NUMBER: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-4000K

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°	1922	1922	1922
5°	1913	1921	1932
10°	1902	1918	1940
15°	1881	1914	1953
20°	1853	1905	1962
25°	1824	1892	1960
30°	1785	1866	1949
35°	1740	1831	1923
40°	1685	1787	1878
45°	1632	1727	1822
50°	1562	1662	1750
55°	1483	1567	1651
60°	1385	1460	1546
65°	1264	1321	1397
70°	1106	1153	1201
75°	944	964	1005
80°	758	773	789
85°	556	525	494



TEST NUMBER: P298170

CATALOG NUMBER: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.6
10°-20°	194.0	10.3
20°-30°	293.3	15.6
30°-40°	348.3	18.5
40°-50°	349.7	18.6
50°-60°	298.7	15.9
60°-70°	205.8	11.0
70°-80°	99.8	5.3
80°-90°	21.8	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°	554.8	29.5
0°-40°	903.2	48.1
0°-60°	1551.6	82.6
0°-90°	1879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	708	708	711	713	715	67
15°	675	678	687	696	701	190
25°	614	619	637	654	660	283
35°	530	538	558	578	585	331
45°	429	435	454	473	479	330
55°	316	321	334	348	352	283
65°	198	198	207	216	219	197
75°	91	89	93	95	97	98
85°	18	18	17	16	16	22
90°	0	0	0	0	0	



TEST NUMBER: P298170

CATALOG NUMBER: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.1	714.1	714.1	714.1	714.1
2.5°	711.1	711.1	712.1	715.1	716.1
5°	708.1	708.1	711.1	713.1	715.1
7.5°	703.1	704.1	707.1	711.1	712.1
10°	696.1	697.1	702.1	707.1	710.1
12.5°	687.1	689.1	695.1	703.1	706.1
15°	675.2	678.2	687.1	696.1	701.1
17.5°	662.2	666.2	676.2	689.1	694.1
20°	647.2	652.2	665.2	679.2	685.1
22.5°	632.3	636.3	651.2	667.2	674.2
25°	614.3	619.3	637.3	654.2	660.2
27.5°	594.4	601.4	620.3	638.3	644.3
30°	574.4	580.4	600.4	620.3	627.3
32.5°	552.5	558.5	580.4	600.4	608.3
35°	529.6	537.5	557.5	578.4	585.4
37.5°	504.6	513.6	534.6	552.5	561.5
40°	479.7	487.7	508.6	527.6	534.6
42.5°	454.8	461.7	481.7	501.6	507.6
45°	428.8	434.8	453.8	472.7	478.7
47.5°	400.9	407.9	425.8	441.8	448.8
50°	373.0	380.0	396.9	411.9	417.9
52.5°	346.1	350.1	366.0	380.0	387.0
55°	316.1	321.1	334.1	348.1	352.0
57.5°	287.2	290.2	303.2	315.1	321.1
60°	257.3	259.3	271.3	280.2	287.2
62.5°	229.4	229.4	238.4	248.3	252.3
65°	198.5	198.5	207.4	216.4	219.4
67.5°	168.5	170.5	176.5	183.5	185.5
70°	140.6	140.6	146.6	151.6	152.6
72.5°	115.7	114.7	117.7	121.7	123.7
75°	90.8	88.8	92.7	94.7	96.7
77.5°	68.8	67.8	69.8	71.8	71.8
80°	48.9	47.9	49.9	49.9	50.9
82.5°	31.9	32.9	32.9	31.9	30.9
85°	18.0	18.0	17.0	16.0	16.0
87.5°	6.0	6.0	6.0	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)