

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: P298141

Luminaire Tested: **D3X-WG-20L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298141  
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-20L83050-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1995.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 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

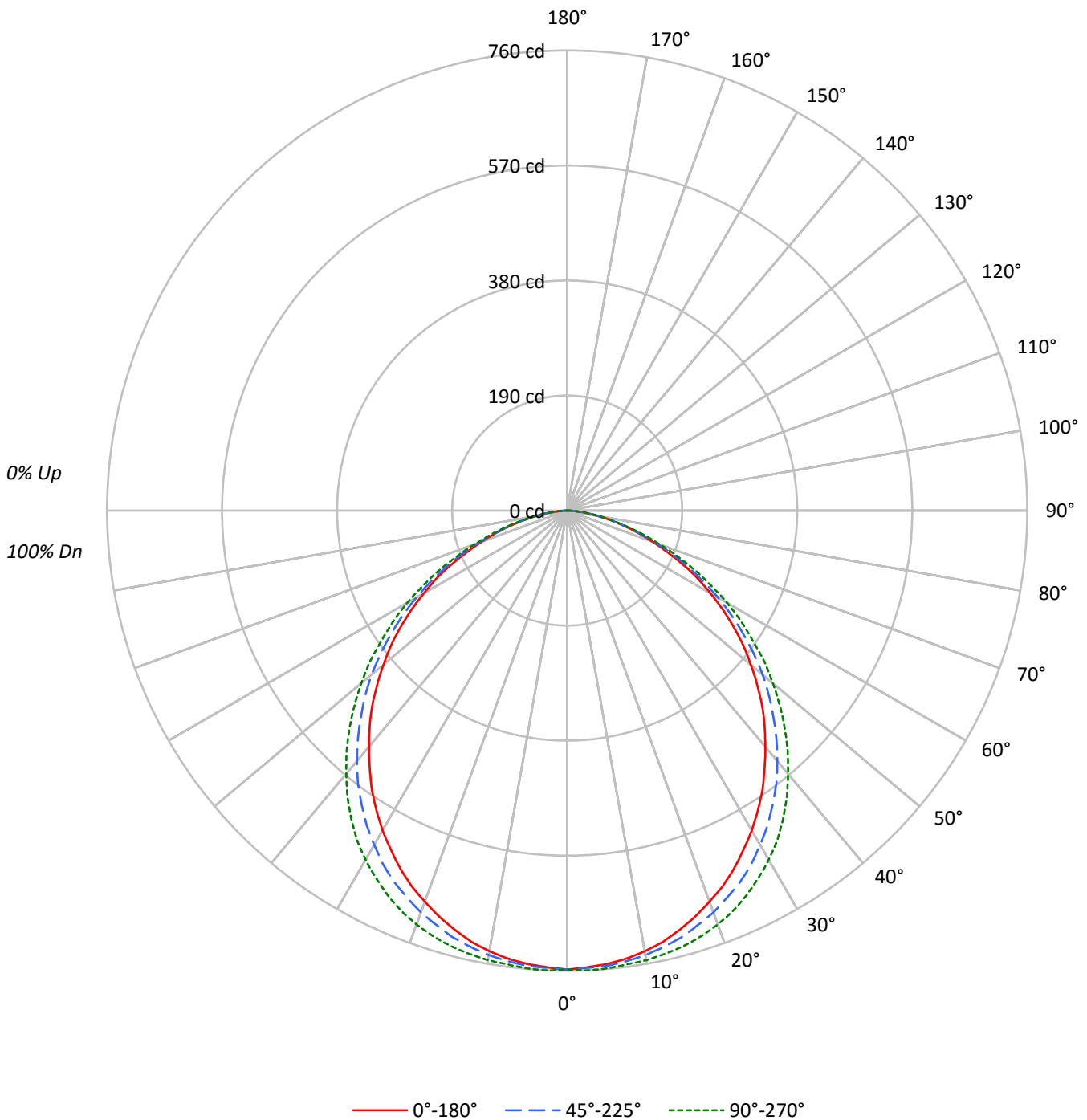
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2040	2040	2040
5°	2031	2039	2051
10°	2020	2037	2060
15°	1997	2033	2074
20°	1968	2023	2083
25°	1937	2009	2081
30°	1895	1981	2069
35°	1847	1944	2042
40°	1789	1897	1994
45°	1733	1834	1934
50°	1658	1764	1858
55°	1575	1664	1754
60°	1470	1550	1641
65°	1342	1402	1483
70°	1175	1225	1275
75°	1002	1024	1068
80°	804	820	837
85°	590	556	522



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	3.6
10°-20°	206.0	10.3
20°-30°	311.4	15.6
30°-40°	369.8	18.5
40°-50°	371.3	18.6
50°-60°	317.1	15.9
60°-70°	218.5	11.0
70°-80°	105.9	5.3
80°-90°	23.2	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°	589.1	29.5
0°-40°	958.9	48.1
0°-60°	1647.4	82.6
0°-90°	1995.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1995.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	752	752	755	757	759	71
15°	717	720	730	739	744	202
25°	652	658	677	695	701	300
35°	562	571	592	614	622	351
45°	455	462	482	502	508	350
55°	336	341	355	370	374	300
65°	211	211	220	230	233	209
75°	96	94	98	101	103	104
85°	19	19	18	17	17	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	758.1	758.1	758.1	758.1	758.1
2.5°	755.0	755.0	756.0	759.2	760.3
5°	751.8	751.8	755.0	757.1	759.2
7.5°	746.5	747.6	750.7	755.0	756.0
10°	739.1	740.1	745.4	750.7	753.9
12.5°	729.6	731.7	738.0	746.5	749.7
15°	716.9	720.0	729.6	739.1	744.4
17.5°	703.1	707.3	717.9	731.7	737.0
20°	687.2	692.5	706.3	721.1	727.4
22.5°	671.3	675.6	691.4	708.4	715.8
25°	652.3	657.6	676.6	694.6	701.0
27.5°	631.1	638.5	658.6	677.7	684.0
30°	609.9	616.3	637.4	658.6	666.0
32.5°	586.6	593.0	616.3	637.4	645.9
35°	562.3	570.7	591.9	614.1	621.6
37.5°	535.8	545.3	567.6	586.6	596.1
40°	509.3	517.8	540.0	560.1	567.6
42.5°	482.8	490.3	511.4	532.6	539.0
45°	455.3	461.7	481.8	501.9	508.3
47.5°	425.7	433.1	452.1	469.1	476.5
50°	396.0	403.4	421.4	437.3	443.7
52.5°	367.4	371.7	388.6	403.4	410.8
55°	335.7	341.0	354.7	369.5	373.8
57.5°	305.0	308.1	321.9	334.6	341.0
60°	273.2	275.3	288.0	297.5	305.0
62.5°	243.5	243.5	253.1	263.7	267.9
65°	210.7	210.7	220.2	229.8	232.9
67.5°	178.9	181.1	187.4	194.8	196.9
70°	149.3	149.3	155.7	160.9	162.0
72.5°	122.8	121.8	124.9	129.2	131.3
75°	96.4	94.2	98.5	100.6	102.7
77.5°	73.1	72.0	74.1	76.2	76.2
80°	51.9	50.8	52.9	52.9	54.0
82.5°	33.9	34.9	34.9	33.9	32.8
85°	19.1	19.1	18.0	16.9	16.9
87.5°	6.4	6.4	6.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)