

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: P298142

Luminaire Tested: **D3X-WG-25L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298142  
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-25L83050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2185.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 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

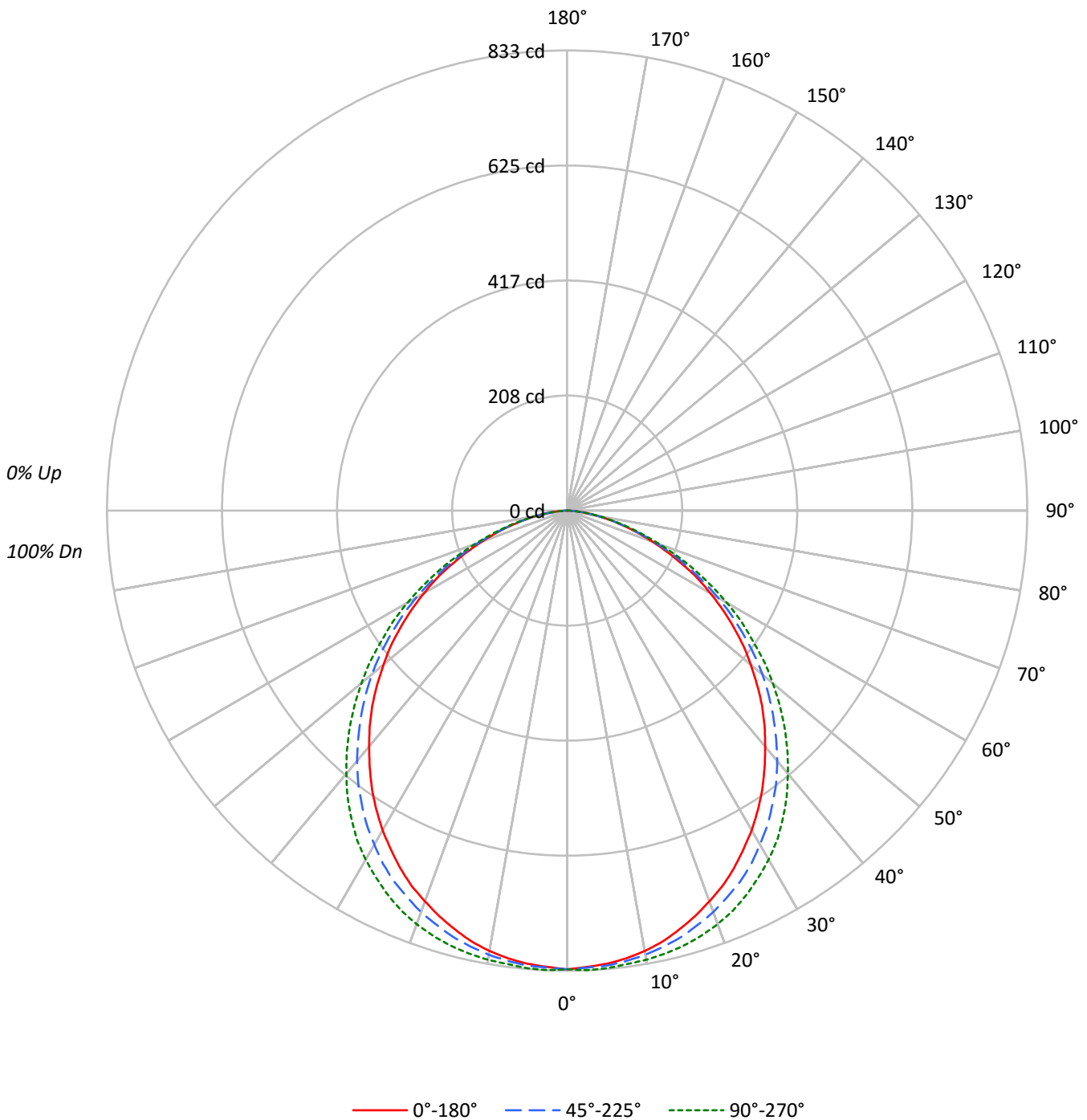
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2235	2235	2235
5°	2224	2234	2246
10°	2212	2231	2256
15°	2187	2226	2271
20°	2155	2215	2281
25°	2121	2200	2279
30°	2076	2169	2267
35°	2023	2130	2236
40°	1959	2078	2184
45°	1898	2008	2119
50°	1816	1932	2034
55°	1725	1823	1921
60°	1610	1697	1798
65°	1470	1536	1624
70°	1286	1341	1396
75°	1097	1122	1170
80°	880	899	916
85°	645	608	574



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	3.6
10°-20°	225.6	10.3
20°-30°	341.0	15.6
30°-40°	405.1	18.5
40°-50°	406.7	18.6
50°-60°	347.4	15.9
60°-70°	239.3	11.0
70°-80°	116.0	5.3
80°-90°	25.4	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°	645.2	29.5
0°-40°	1050.2	48.1
0°-60°	1804.3	82.6
0°-90°	2185.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2185.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	823	823	827	829	832	78
15°	785	789	799	810	815	221
25°	714	720	741	761	768	329
35°	616	625	648	673	681	385
45°	499	506	528	550	557	384
55°	368	373	388	405	409	329
65°	231	231	241	252	255	229
75°	106	103	108	110	112	113
85°	21	21	20	19	19	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	830.4	830.4	830.4	830.4	830.4
2.5°	826.9	826.9	828.0	831.5	832.7
5°	823.4	823.4	826.9	829.2	831.5
7.5°	817.6	818.8	822.2	826.9	828.0
10°	809.5	810.6	816.4	822.2	825.7
12.5°	799.0	801.4	808.3	817.6	821.1
15°	785.1	788.6	799.0	809.5	815.3
17.5°	770.0	774.7	786.3	801.4	807.2
20°	752.6	758.4	773.5	789.8	796.7
22.5°	735.3	739.9	757.3	775.8	784.0
25°	714.4	720.2	741.1	760.8	767.7
27.5°	691.2	699.3	721.3	742.2	749.2
30°	668.0	674.9	698.1	721.3	729.5
32.5°	642.5	649.4	674.9	698.1	707.4
35°	615.8	625.1	648.3	672.6	680.7
37.5°	586.8	597.2	621.6	642.5	652.9
40°	557.8	567.1	591.5	613.5	621.6
42.5°	528.8	536.9	560.1	583.3	590.3
45°	498.7	505.6	527.7	549.7	556.7
47.5°	466.2	474.3	495.2	513.8	521.9
50°	433.7	441.8	461.6	479.0	485.9
52.5°	402.4	407.1	425.6	441.8	450.0
55°	367.6	373.4	388.5	404.7	409.4
57.5°	334.0	337.5	352.6	366.5	373.4
60°	299.2	301.5	315.4	325.9	334.0
62.5°	266.7	266.7	277.2	288.8	293.4
65°	230.8	230.8	241.2	251.7	255.1
67.5°	196.0	198.3	205.3	213.4	215.7
70°	163.5	163.5	170.5	176.3	177.4
72.5°	134.5	133.4	136.8	141.5	143.8
75°	105.5	103.2	107.9	110.2	112.5
77.5°	80.0	78.9	81.2	83.5	83.5
80°	56.8	55.7	58.0	58.0	59.1
82.5°	37.1	38.3	38.3	37.1	36.0
85°	20.9	20.9	19.7	18.6	18.6
87.5°	7.0	7.0	7.0	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)