

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: P297299

Luminaire Tested: **D3X-WO-60L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-60L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5693.0 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

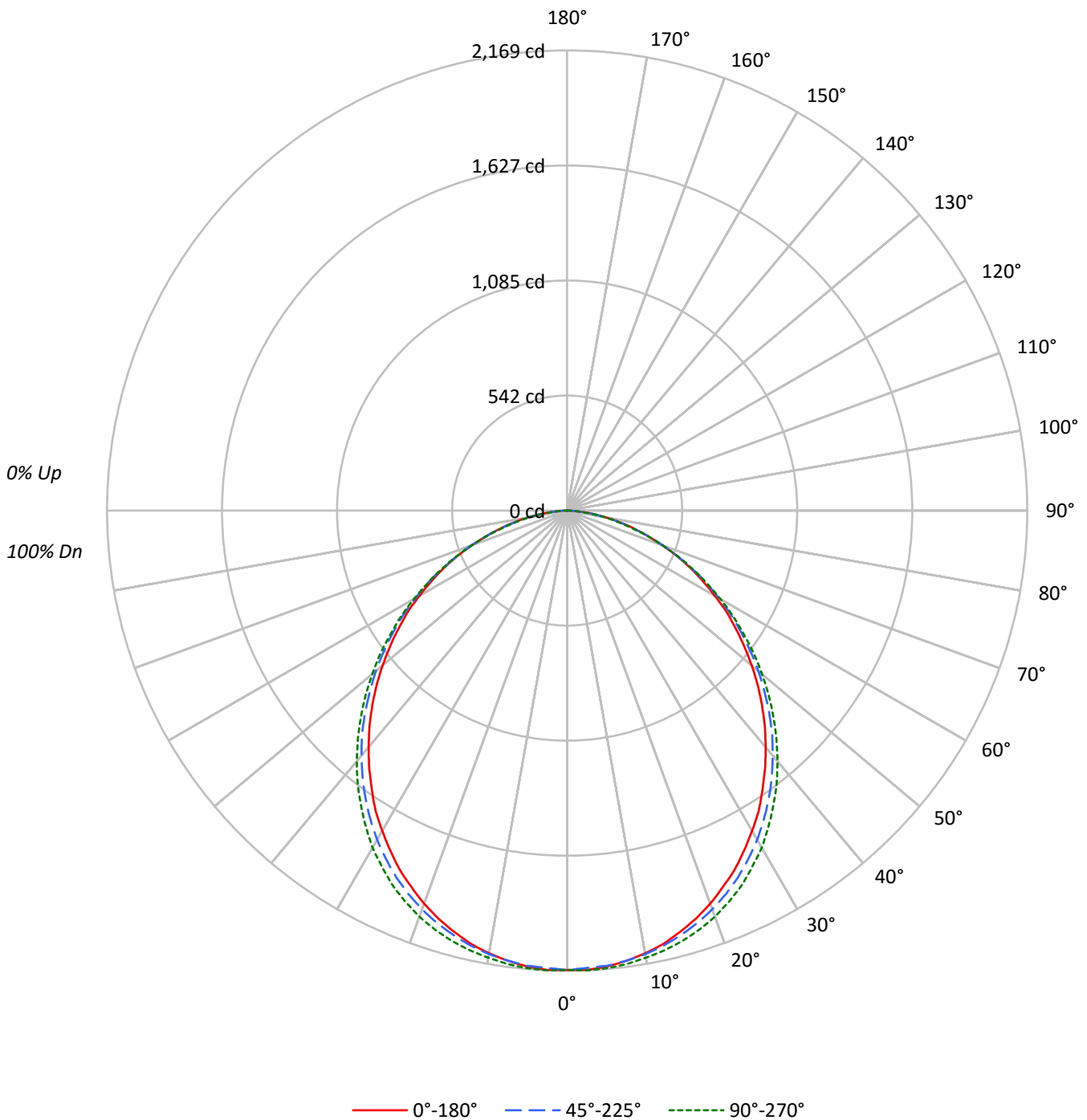
Input Watts (W): 43.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	2913	2913	2913
5°	2914	2909	2924
10°	2895	2901	2924
15°	2864	2885	2925
20°	2823	2864	2916
25°	2773	2830	2893
30°	2708	2783	2851
35°	2637	2722	2785
40°	2557	2648	2708
45°	2470	2562	2616
50°	2376	2465	2509
55°	2276	2348	2384
60°	2162	2219	2245
65°	2039	2070	2082
70°	1871	1894	1871
75°	1685	1675	1625
80°	1426	1412	1367
85°	1065	1036	919



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.0	3.6
10°-20°	585.6	10.3
20°-30°	878.0	15.4
30°-40°	1034.0	18.2
40°-50°	1034.2	18.2
50°-60°	892.3	15.7
60°-70°	642.1	11.3
70°-80°	340.6	6.0
80°-90°	81.2	1.4
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°	1668.6	29.3
0°-40°	2702.6	47.5
0°-60°	4629.1	81.3
0°-90°	5693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2165	2165	2165	2165	2165	
5°	2158	2156	2154	2161	2165	205
15°	2056	2062	2071	2092	2100	580
25°	1868	1879	1906	1939	1948	859
35°	1605	1624	1657	1686	1695	1004
45°	1298	1316	1346	1369	1375	1002
55°	970	980	1001	1018	1016	868
65°	640	642	650	654	654	634
75°	324	320	322	314	313	345
85°	69	69	67	61	60	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2165.2	2165.2	2165.2	2165.2	2165.2
2.5°	2167.1	2163.2	2157.5	2165.2	2169.0
5°	2157.5	2155.6	2153.6	2161.3	2165.2
7.5°	2140.2	2142.1	2140.2	2151.7	2155.6
10°	2119.1	2121.0	2123.0	2136.4	2140.2
12.5°	2092.3	2094.2	2099.9	2117.2	2123.0
15°	2055.8	2061.6	2071.2	2092.3	2099.9
17.5°	2017.5	2025.2	2038.6	2063.5	2071.2
20°	1971.5	1981.0	2000.2	2027.1	2036.7
22.5°	1919.7	1929.3	1956.1	1984.9	1994.5
25°	1867.9	1879.4	1906.3	1938.9	1948.4
27.5°	1806.5	1821.9	1850.6	1883.2	1890.9
30°	1743.2	1756.7	1791.2	1821.9	1835.3
32.5°	1680.0	1693.4	1726.0	1756.7	1766.3
35°	1605.2	1624.3	1656.9	1685.7	1695.3
37.5°	1532.3	1549.6	1584.1	1612.8	1622.4
40°	1455.6	1470.9	1507.4	1534.2	1541.9
42.5°	1378.9	1394.2	1430.7	1451.7	1459.4
45°	1298.3	1315.6	1346.3	1369.3	1375.0
47.5°	1217.8	1231.2	1260.0	1281.1	1288.7
50°	1135.3	1148.7	1177.5	1194.8	1198.6
52.5°	1052.9	1062.4	1089.3	1104.6	1110.4
55°	970.4	980.0	1001.1	1018.3	1016.4
57.5°	891.8	895.6	916.7	928.2	928.2
60°	803.5	807.4	824.6	832.3	834.2
62.5°	721.1	726.8	740.3	742.2	742.2
65°	640.5	642.5	650.1	654.0	654.0
67.5°	560.0	558.1	565.7	565.7	563.8
70°	475.6	479.4	481.4	477.5	475.6
72.5°	398.9	397.0	397.0	395.1	395.1
75°	324.1	320.3	322.2	314.5	312.6
77.5°	255.1	249.3	247.4	243.6	239.7
80°	184.1	184.1	182.2	178.4	176.4
82.5°	122.7	122.7	120.8	117.0	113.1
85°	69.0	69.0	67.1	61.4	59.5
87.5°	23.0	23.0	23.0	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)