

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: P296808

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296808  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-55L82765-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5291.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

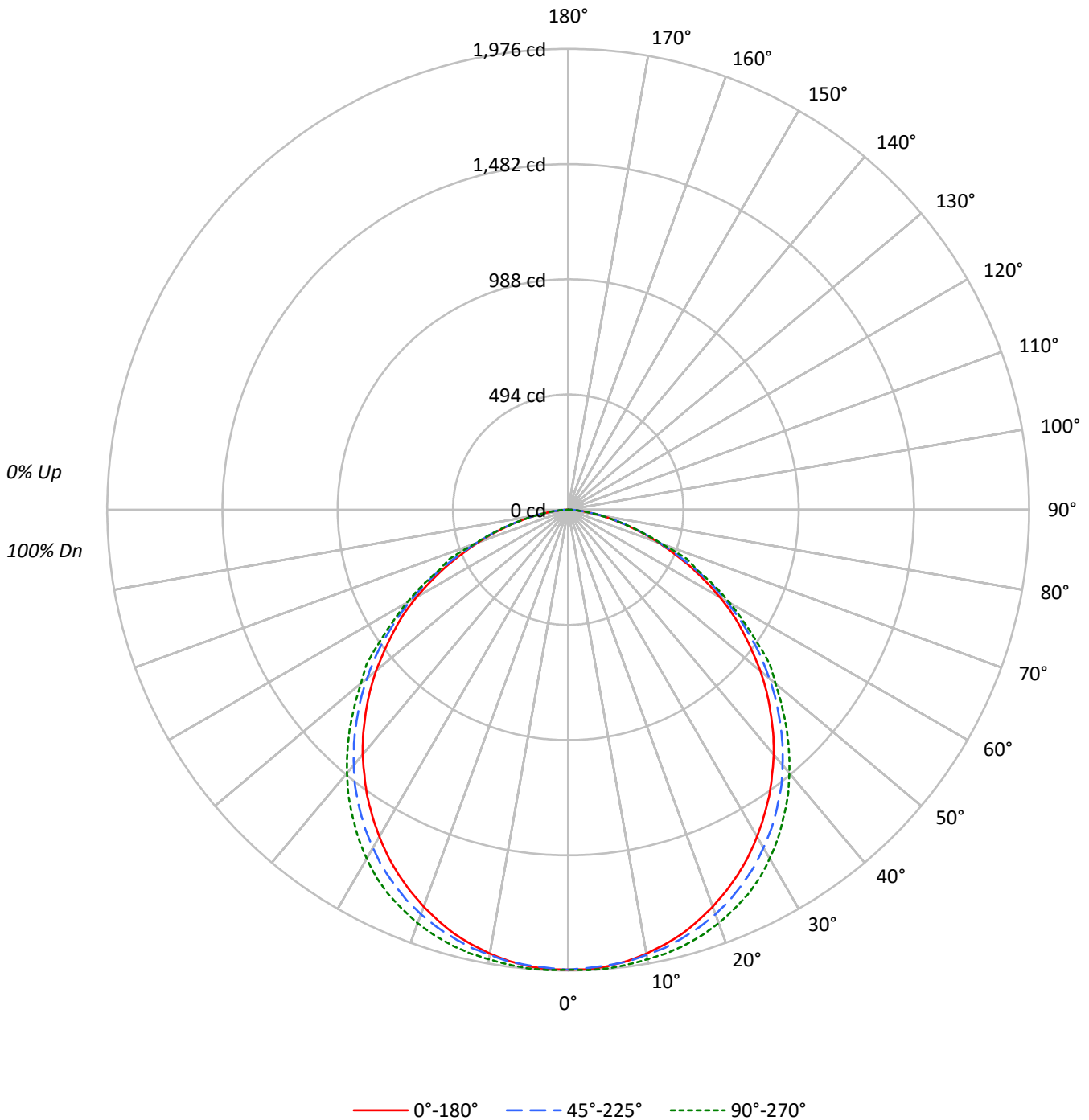
Input Watts (W): 39.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2654	2654	2654
5°	2654	2649	2667
10°	2640	2648	2674
15°	2623	2647	2692
20°	2593	2642	2702
25°	2559	2627	2703
30°	2516	2601	2684
35°	2466	2563	2644
40°	2408	2511	2591
45°	2334	2442	2518
50°	2249	2357	2428
55°	2146	2244	2311
60°	2023	2100	2151
65°	1837	1898	1934
70°	1613	1650	1673
75°	1362	1382	1392
80°	1089	1103	1074
85°	733	763	733



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.9	3.5
10°-20°	537.6	10.2
20°-30°	815.6	15.4
30°-40°	973.8	18.4
40°-50°	985.8	18.6
50°-60°	852.1	16.1
60°-70°	590.6	11.2
70°-80°	285.8	5.4
80°-90°	62.8	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°	1540.1	29.1
0°-40°	2513.9	47.5
0°-60°	4351.8	82.2
0°-90°	5291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1965	1963	1961	1970	1974	187
15°	1883	1887	1900	1923	1933	531
25°	1724	1735	1769	1805	1821	794
35°	1502	1515	1560	1600	1610	938
45°	1226	1244	1283	1316	1323	946
55°	915	924	957	997	985	818
65°	577	583	596	606	608	571
75°	262	264	266	264	268	281
85°	48	51	49	48	48	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1972.4	1972.4	1972.4	1972.4	1972.4
2.5°	1972.4	1970.5	1966.8	1972.4	1976.2
5°	1964.9	1963.0	1961.1	1970.5	1974.3
7.5°	1951.6	1951.6	1953.5	1963.0	1966.8
10°	1932.6	1934.5	1938.3	1953.5	1957.3
12.5°	1909.8	1913.6	1923.1	1940.2	1947.8
15°	1883.2	1887.0	1900.3	1923.1	1932.6
17.5°	1849.1	1856.6	1875.6	1902.2	1911.7
20°	1811.1	1820.6	1845.3	1875.6	1887.0
22.5°	1769.3	1778.8	1811.1	1843.4	1854.7
25°	1723.8	1735.1	1769.3	1805.4	1820.6
27.5°	1674.4	1687.7	1725.7	1763.6	1778.8
30°	1619.3	1634.5	1674.4	1714.3	1727.6
32.5°	1560.5	1575.7	1621.2	1659.2	1672.5
35°	1501.6	1514.9	1560.5	1600.4	1609.9
37.5°	1435.2	1450.4	1499.7	1533.9	1547.2
40°	1370.7	1385.8	1429.5	1463.7	1475.1
42.5°	1300.4	1315.6	1359.3	1391.5	1401.0
45°	1226.4	1243.5	1283.3	1315.6	1323.2
47.5°	1152.3	1165.6	1207.4	1235.9	1241.6
50°	1074.5	1087.8	1125.8	1154.2	1159.9
52.5°	992.9	1013.8	1044.1	1065.0	1089.7
55°	915.0	924.5	956.8	996.7	985.3
57.5°	837.2	842.9	869.5	886.6	890.4
60°	751.8	759.4	780.2	789.7	799.2
62.5°	662.5	668.2	692.9	702.4	706.2
65°	577.1	582.8	596.1	605.6	607.5
67.5°	489.8	495.5	506.9	514.5	548.6
70°	410.1	413.9	419.5	434.7	425.2
72.5°	334.1	336.0	341.7	341.7	343.6
75°	262.0	263.9	265.8	263.9	267.7
77.5°	195.5	199.3	201.2	199.3	197.4
80°	140.5	144.3	142.4	138.6	138.6
82.5°	91.1	93.0	91.1	89.2	89.2
85°	47.5	51.3	49.4	47.5	47.5
87.5°	17.1	19.0	20.9	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)