

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: P296831

Luminaire Tested: **D3X-WD-74L82765-LD5-UNV-24-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296831  
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-74L82765-LD5-UNV-24-T1-W2A-2700K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6403.0 lumens  
Efficiency: N/A  
Efficacy: 116.2 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

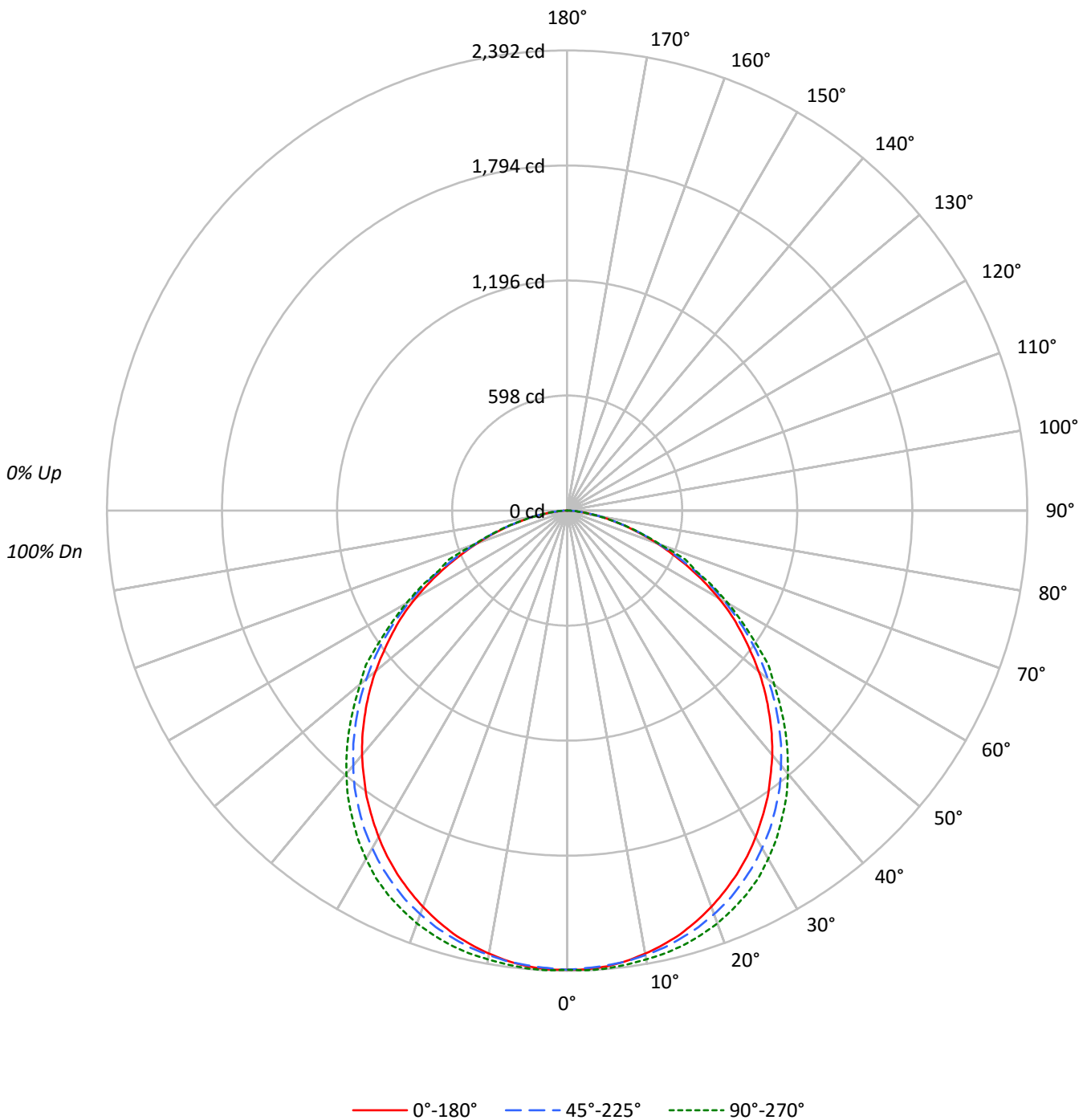
Input Watts (W): 55.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3212	3212	3212
5°	3212	3205	3227
10°	3195	3205	3236
15°	3175	3203	3258
20°	3138	3197	3270
25°	3097	3179	3271
30°	3045	3148	3248
35°	2985	3102	3200
40°	2913	3038	3135
45°	2824	2955	3047
50°	2722	2852	2938
55°	2597	2716	2797
60°	2448	2541	2603
65°	2223	2297	2341
70°	1952	1997	2024
75°	1648	1672	1684
80°	1317	1335	1299
85°	886	922	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.2	3.5
10°-20°	650.5	10.2
20°-30°	987.0	15.4
30°-40°	1178.4	18.4
40°-50°	1193.0	18.6
50°-60°	1031.2	16.1
60°-70°	714.7	11.2
70°-80°	345.8	5.4
80°-90°	76.0	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°	1863.8	29.1
0°-40°	3042.2	47.5
0°-60°	5266.4	82.2
0°-90°	6403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6403.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2387	2387	2387	2387	2387	
5°	2378	2376	2373	2385	2389	226
15°	2279	2284	2300	2327	2339	642
25°	2086	2100	2141	2185	2203	961
35°	1817	1833	1888	1937	1948	1135
45°	1484	1505	1553	1592	1601	1145
55°	1107	1119	1158	1206	1192	990
65°	698	705	721	733	735	691
75°	317	319	322	319	324	340
85°	57	62	60	57	57	74
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2387.0	2387.0	2387.0	2387.0	2387.0
2.5°	2387.0	2384.7	2380.1	2387.0	2391.6
5°	2377.8	2375.5	2373.2	2384.7	2389.3
7.5°	2361.7	2361.7	2364.0	2375.5	2380.1
10°	2338.7	2341.0	2345.6	2364.0	2368.6
12.5°	2311.2	2315.8	2327.3	2347.9	2357.1
15°	2279.0	2283.6	2299.7	2327.3	2338.7
17.5°	2237.7	2246.9	2269.8	2302.0	2313.5
20°	2191.7	2203.2	2233.1	2269.8	2283.6
22.5°	2141.2	2152.7	2191.7	2230.8	2244.6
25°	2086.0	2099.8	2141.2	2184.8	2203.2
27.5°	2026.3	2042.4	2088.3	2134.3	2152.7
30°	1959.7	1978.1	2026.3	2074.5	2090.6
32.5°	1888.5	1906.8	1962.0	2007.9	2024.0
35°	1817.2	1833.3	1888.5	1936.7	1948.2
37.5°	1736.8	1755.2	1814.9	1856.3	1872.4
40°	1658.7	1677.1	1729.9	1771.3	1785.1
42.5°	1573.7	1592.1	1644.9	1684.0	1695.5
45°	1484.1	1504.8	1553.0	1592.1	1601.3
47.5°	1394.5	1410.6	1461.1	1495.6	1502.5
50°	1300.3	1316.4	1362.4	1396.8	1403.7
52.5°	1201.5	1226.8	1263.6	1288.8	1318.7
55°	1107.3	1118.8	1157.9	1206.1	1192.3
57.5°	1013.2	1020.0	1052.2	1072.9	1077.5
60°	909.8	919.0	944.2	955.7	967.2
62.5°	801.8	808.7	838.5	850.0	854.6
65°	698.4	705.3	721.4	732.9	735.2
67.5°	592.7	599.6	613.4	622.6	663.9
70°	496.2	500.8	507.7	526.1	514.6
72.5°	404.3	406.6	413.5	413.5	415.8
75°	317.0	319.3	321.6	319.3	323.9
77.5°	236.6	241.2	243.5	241.2	238.9
80°	170.0	174.6	172.3	167.7	167.7
82.5°	110.3	112.6	110.3	108.0	108.0
85°	57.4	62.0	59.7	57.4	57.4
87.5°	20.7	23.0	25.3	27.6	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)