

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: P258408

Luminaire Tested: **D3X-WD-74L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-74L840-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6787.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

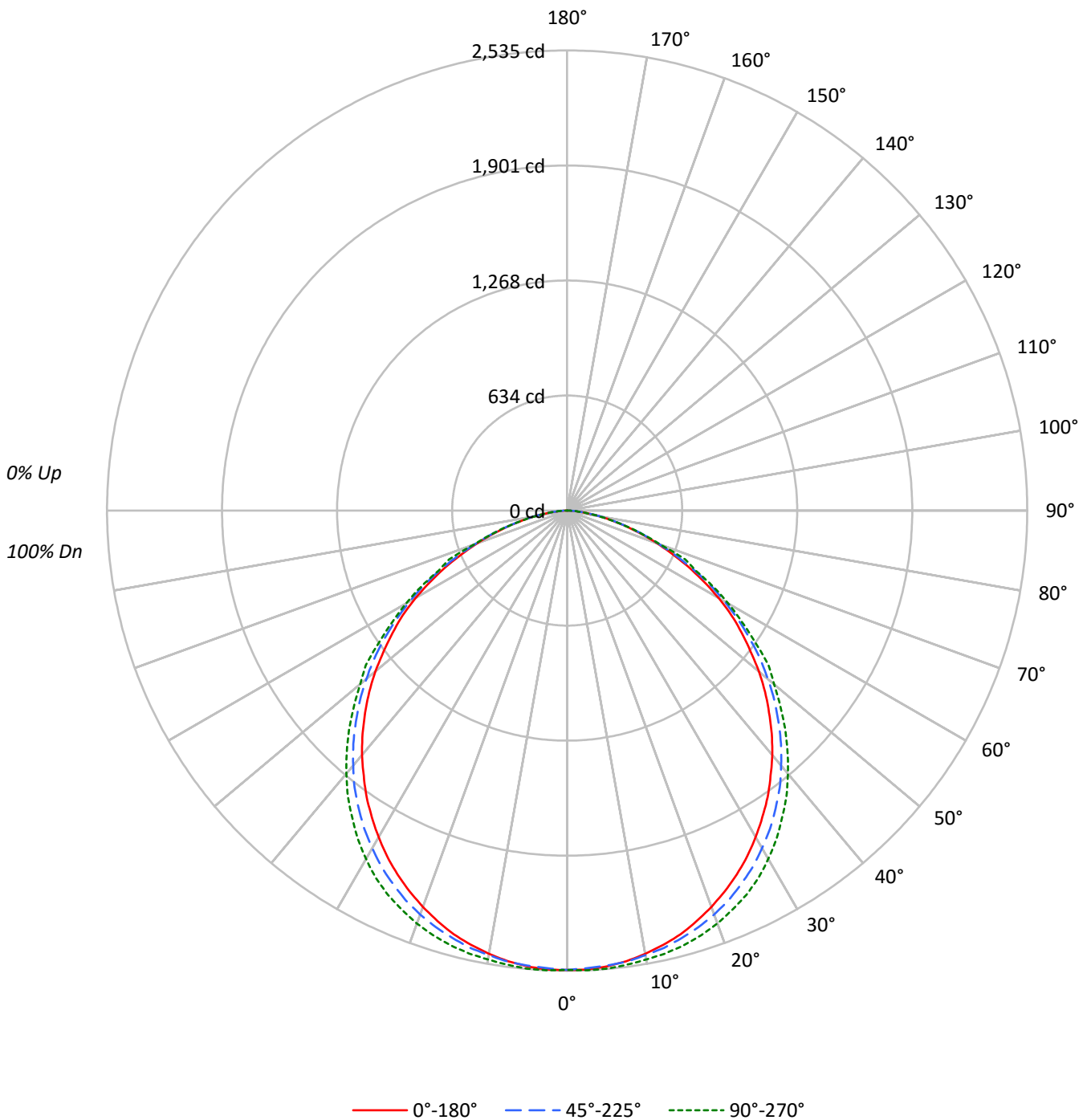
Input Watts (W): 61.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3405	3405	3405
5°	3405	3398	3421
10°	3387	3397	3431
15°	3365	3396	3454
20°	3327	3390	3466
25°	3283	3370	3467
30°	3228	3337	3443
35°	3164	3288	3392
40°	3088	3221	3324
45°	2994	3133	3230
50°	2885	3023	3115
55°	2754	2879	2965
60°	2595	2694	2759
65°	2357	2435	2481
70°	2070	2117	2146
75°	1747	1773	1785
80°	1396	1416	1378
85°	940	977	940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.8	3.5
10°-20°	689.6	10.2
20°-30°	1046.4	15.4
30°-40°	1249.2	18.4
40°-50°	1264.7	18.6
50°-60°	1093.2	16.1
60°-70°	757.7	11.2
70°-80°	366.6	5.4
80°-90°	80.6	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°	1975.8	29.1
0°-40°	3225.0	47.5
0°-60°	5582.9	82.2
0°-90°	6787.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6787.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2530	2530	2530	2530	2530	
5°	2521	2518	2516	2528	2533	239
15°	2416	2421	2438	2467	2479	681
25°	2211	2226	2270	2316	2336	1018
35°	1926	1944	2002	2053	2065	1203
45°	1573	1595	1646	1688	1698	1213
55°	1174	1186	1228	1279	1264	1049
65°	740	748	765	777	779	733
75°	336	338	341	338	343	361
85°	61	66	63	61	61	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2530.5	2530.5	2530.5	2530.5	2530.5
2.5°	2530.5	2528.0	2523.2	2530.5	2535.3
5°	2520.7	2518.3	2515.8	2528.0	2532.9
7.5°	2503.7	2503.7	2506.1	2518.3	2523.2
10°	2479.3	2481.7	2486.6	2506.1	2511.0
12.5°	2450.1	2455.0	2467.1	2489.1	2498.8
15°	2416.0	2420.9	2437.9	2467.1	2479.3
17.5°	2372.2	2381.9	2406.2	2440.3	2452.5
20°	2323.4	2335.6	2367.3	2406.2	2420.9
22.5°	2269.9	2282.0	2323.4	2364.8	2379.5
25°	2211.4	2226.0	2269.9	2316.1	2335.6
27.5°	2148.1	2165.1	2213.8	2262.6	2282.0
30°	2077.5	2096.9	2148.1	2199.2	2216.3
32.5°	2002.0	2021.4	2079.9	2128.6	2145.7
35°	1926.5	1943.5	2002.0	2053.1	2065.3
37.5°	1841.2	1860.7	1924.0	1967.9	1984.9
40°	1758.4	1777.9	1833.9	1877.7	1892.4
42.5°	1668.3	1687.8	1743.8	1785.2	1797.4
45°	1573.3	1595.2	1646.4	1687.8	1697.5
47.5°	1478.3	1495.4	1549.0	1585.5	1592.8
50°	1378.5	1395.5	1444.2	1480.8	1488.1
52.5°	1273.8	1300.5	1339.5	1366.3	1398.0
55°	1173.9	1186.1	1227.5	1278.6	1264.0
57.5°	1074.0	1081.4	1115.4	1137.4	1142.2
60°	964.4	974.2	1001.0	1013.2	1025.3
62.5°	850.0	857.3	888.9	901.1	906.0
65°	740.4	747.7	764.7	776.9	779.4
67.5°	628.4	635.7	650.3	660.0	703.9
70°	526.1	530.9	538.2	557.7	545.5
72.5°	428.6	431.1	438.4	438.4	440.8
75°	336.1	338.5	341.0	338.5	343.4
77.5°	250.9	255.7	258.2	255.7	253.3
80°	180.2	185.1	182.7	177.8	177.8
82.5°	116.9	119.3	116.9	114.5	114.5
85°	60.9	65.8	63.3	60.9	60.9
87.5°	21.9	24.4	26.8	29.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)