

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: P258471

Luminaire Tested: **D3X-WG-80L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258471  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-80L830-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (252) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7075.2 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

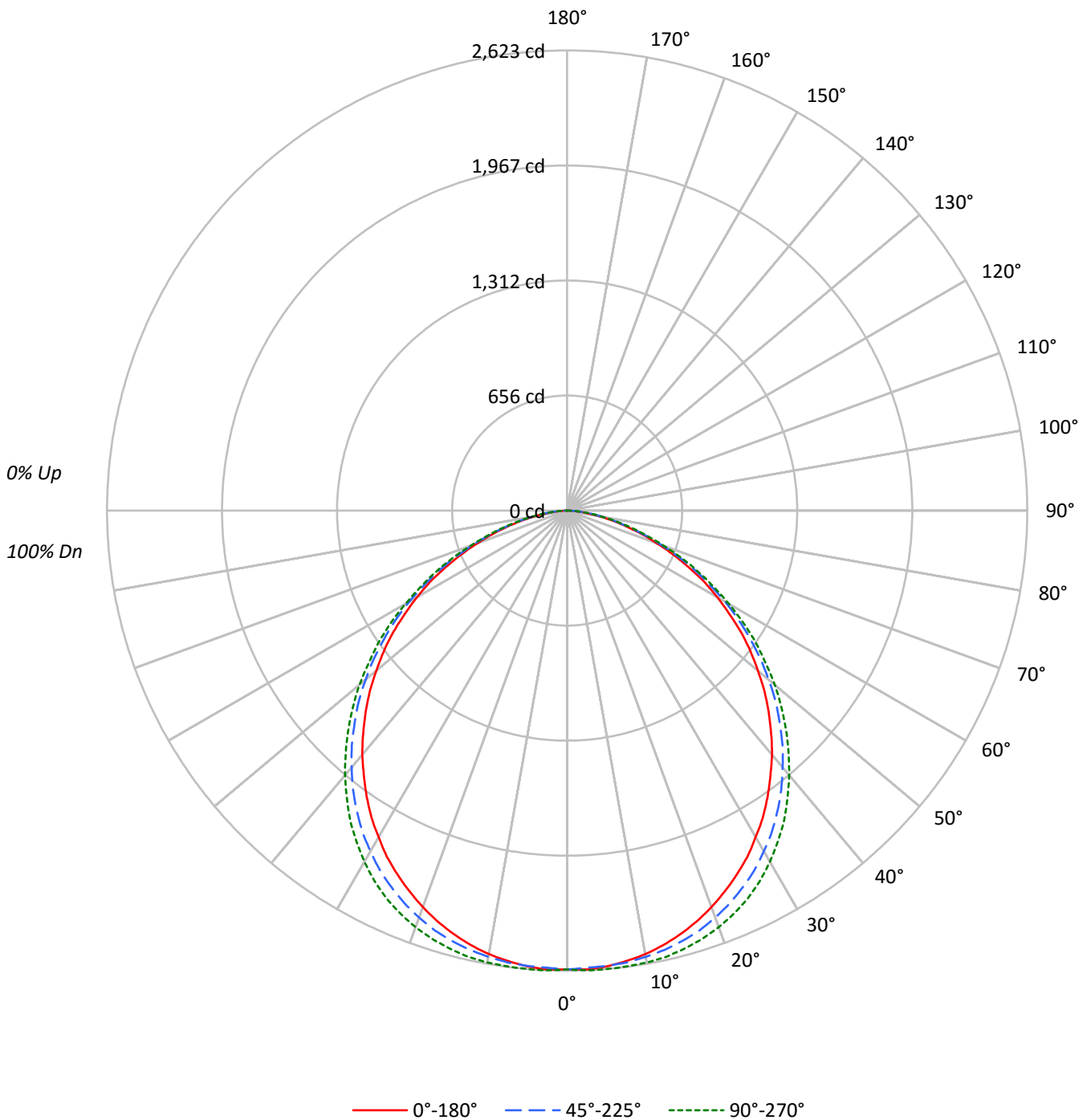
Input Watts (W): 67.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
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		47	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	27		38	32	27		37	31	27	26

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

	0°	45°	90°
0°	3519	3519	3519
5°	3522	3519	3543
10°	3508	3528	3573
15°	3481	3537	3601
20°	3444	3534	3618
25°	3398	3518	3620
30°	3339	3485	3591
35°	3272	3434	3543
40°	3192	3357	3459
45°	3091	3260	3357
50°	2971	3141	3236
55°	2842	2985	3080
60°	2660	2796	2865
65°	2429	2558	2622
70°	2134	2243	2303
75°	1805	1897	1963
80°	1433	1571	1610
85°	979	1173	1135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.5	3.5
10°-20°	717.5	10.1
20°-30°	1090.4	15.4
30°-40°	1301.1	18.4
40°-50°	1314.1	18.6
50°-60°	1132.1	16.0
60°-70°	789.2	11.2
70°-80°	391.1	5.5
80°-90°	91.2	1.3
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°	2056.4	29.1
0°-40°	3357.4	47.5
0°-60°	5803.6	82.0
0°-90°	7075.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7075.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2616	2616	2616	2616	2616	
5°	2608	2605	2605	2618	2623	248
15°	2499	2512	2540	2572	2585	705
25°	2289	2319	2370	2418	2438	1054
35°	1992	2025	2091	2139	2157	1245
45°	1625	1660	1713	1754	1764	1252
55°	1212	1237	1272	1303	1313	1080
65°	763	778	803	811	824	758
75°	347	352	365	373	378	374
85°	63	76	76	71	74	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2615.5	2615.5	2615.5	2615.5	2615.5
2.5°	2618.1	2613.0	2607.9	2618.1	2623.1
5°	2607.9	2605.4	2605.4	2618.1	2623.1
7.5°	2590.2	2590.2	2597.8	2615.5	2620.6
10°	2567.4	2572.5	2582.6	2607.9	2615.5
12.5°	2537.0	2547.1	2564.9	2595.3	2605.4
15°	2499.0	2511.6	2539.5	2572.5	2585.1
17.5°	2455.9	2473.6	2509.1	2547.1	2559.8
20°	2405.2	2428.0	2468.5	2511.6	2526.8
22.5°	2349.4	2377.3	2422.9	2468.5	2486.3
25°	2288.6	2319.0	2369.7	2417.9	2438.1
27.5°	2225.2	2255.6	2311.4	2359.6	2379.8
30°	2149.2	2184.7	2243.0	2293.7	2311.4
32.5°	2075.7	2111.2	2172.0	2217.6	2235.4
35°	1992.1	2025.0	2090.9	2139.1	2156.8
37.5°	1903.4	1941.4	2004.7	2047.8	2063.0
40°	1817.2	1850.1	1911.0	1954.1	1969.3
42.5°	1720.9	1756.4	1817.2	1855.2	1867.9
45°	1624.6	1660.1	1713.3	1753.8	1764.0
47.5°	1525.7	1558.7	1611.9	1644.9	1655.0
50°	1419.3	1449.7	1500.4	1533.3	1546.0
52.5°	1317.9	1345.8	1388.9	1416.8	1424.4
55°	1211.5	1236.8	1272.3	1302.7	1312.8
57.5°	1097.4	1125.3	1158.2	1183.6	1191.2
60°	988.4	1011.2	1039.1	1061.9	1064.5
62.5°	882.0	892.1	917.5	937.7	940.3
65°	762.9	778.1	803.4	811.0	823.7
67.5°	653.9	664.0	684.3	694.4	704.6
70°	542.4	550.0	570.2	582.9	585.5
72.5°	446.1	448.6	463.8	473.9	476.5
75°	347.2	352.3	365.0	372.6	377.6
77.5°	263.6	268.7	278.8	283.9	283.9
80°	185.0	192.6	202.8	205.3	207.8
82.5°	119.1	129.3	136.9	139.4	134.3
85°	63.4	76.0	76.0	71.0	73.5
87.5°	22.8	27.9	30.4	32.9	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)