

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: P258530

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-80L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7523.6 lumens
Efficiency: N/A
Efficacy: 111.6 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

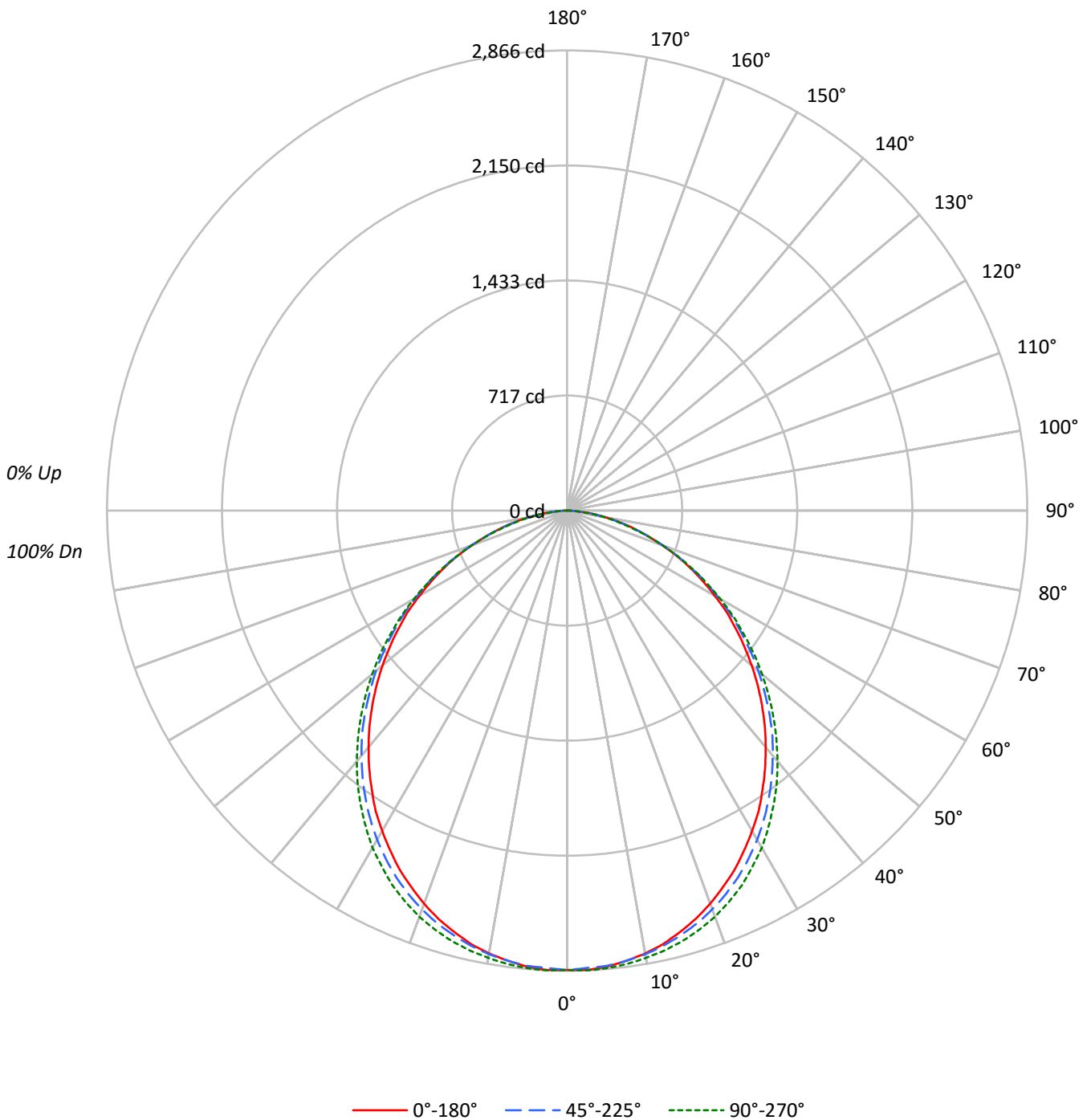
Input Watts (W): 67.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52																												
5	77	64	55	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	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	3850	3850	3850
5°	3851	3844	3865
10°	3826	3833	3864
15°	3785	3813	3866
20°	3731	3785	3854
25°	3665	3740	3823
30°	3579	3678	3768
35°	3484	3597	3680
40°	3379	3499	3579
45°	3265	3385	3458
50°	3141	3257	3316
55°	3008	3103	3151
60°	2858	2933	2967
65°	2695	2735	2751
70°	2472	2502	2472
75°	2227	2214	2148
80°	1885	1866	1807
85°	1408	1369	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.9	3.6
10°-20°	773.9	10.3
20°-30°	1160.3	15.4
30°-40°	1366.5	18.2
40°-50°	1366.7	18.2
50°-60°	1179.3	15.7
60°-70°	848.5	11.3
70°-80°	450.1	6.0
80°-90°	107.3	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°	2205.2	29.3
0°-40°	3571.7	47.5
0°-60°	6117.7	81.3
0°-90°	7523.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7523.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2861	2861	2861	2861	2861	
5°	2851	2849	2846	2856	2861	270
15°	2717	2724	2737	2765	2775	766
25°	2468	2484	2519	2562	2575	1135
35°	2121	2147	2190	2228	2240	1327
45°	1716	1739	1779	1810	1817	1324
55°	1282	1295	1323	1346	1343	1148
65°	846	849	859	864	864	837
75°	428	423	426	416	413	456
85°	91	91	89	81	79	110
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2861.4	2861.4	2861.4	2861.4	2861.4
2.5°	2863.9	2858.8	2851.2	2861.4	2866.4
5°	2851.2	2848.7	2846.2	2856.3	2861.4
7.5°	2828.4	2831.0	2828.4	2843.6	2848.7
10°	2800.6	2803.1	2805.6	2823.4	2828.4
12.5°	2765.1	2767.6	2775.2	2798.0	2805.6
15°	2716.9	2724.5	2737.2	2765.1	2775.2
17.5°	2666.2	2676.4	2694.1	2727.1	2737.2
20°	2605.4	2618.1	2643.4	2678.9	2691.6
22.5°	2537.0	2549.6	2585.1	2623.1	2635.8
25°	2468.5	2483.7	2519.2	2562.3	2575.0
27.5°	2387.4	2407.7	2445.7	2488.8	2499.0
30°	2303.8	2321.5	2367.2	2407.7	2425.5
32.5°	2220.2	2237.9	2281.0	2321.5	2334.2
35°	2121.3	2146.7	2189.8	2227.8	2240.4
37.5°	2025.0	2047.8	2093.4	2131.5	2144.1
40°	1923.6	1943.9	1992.1	2027.5	2037.7
42.5°	1822.3	1842.5	1890.7	1918.6	1928.7
45°	1715.8	1738.6	1779.2	1809.6	1817.2
47.5°	1609.4	1627.1	1665.1	1693.0	1703.1
50°	1500.4	1518.1	1556.1	1579.0	1584.0
52.5°	1391.4	1404.1	1439.6	1459.8	1467.4
55°	1282.4	1295.1	1323.0	1345.8	1343.3
57.5°	1178.5	1183.6	1211.5	1226.7	1226.7
60°	1061.9	1067.0	1089.8	1099.9	1102.5
62.5°	952.9	960.6	978.3	980.8	980.8
65°	846.5	849.0	859.2	864.2	864.2
67.5°	740.1	737.5	747.7	747.7	745.1
70°	628.5	633.6	636.1	631.1	628.5
72.5°	527.2	524.6	524.6	522.1	522.1
75°	428.3	423.3	425.8	415.6	413.1
77.5°	337.1	329.5	326.9	321.9	316.8
80°	243.3	243.3	240.8	235.7	233.2
82.5°	162.2	162.2	159.7	154.6	149.5
85°	91.2	91.2	88.7	81.1	78.6
87.5°	30.4	30.4	30.4	30.4	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)