

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: P258506

Luminaire Tested: **D3X-WO-55L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258506
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-55L830-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: 5186.3 lumens
Efficiency: N/A
Efficacy: 121.5 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

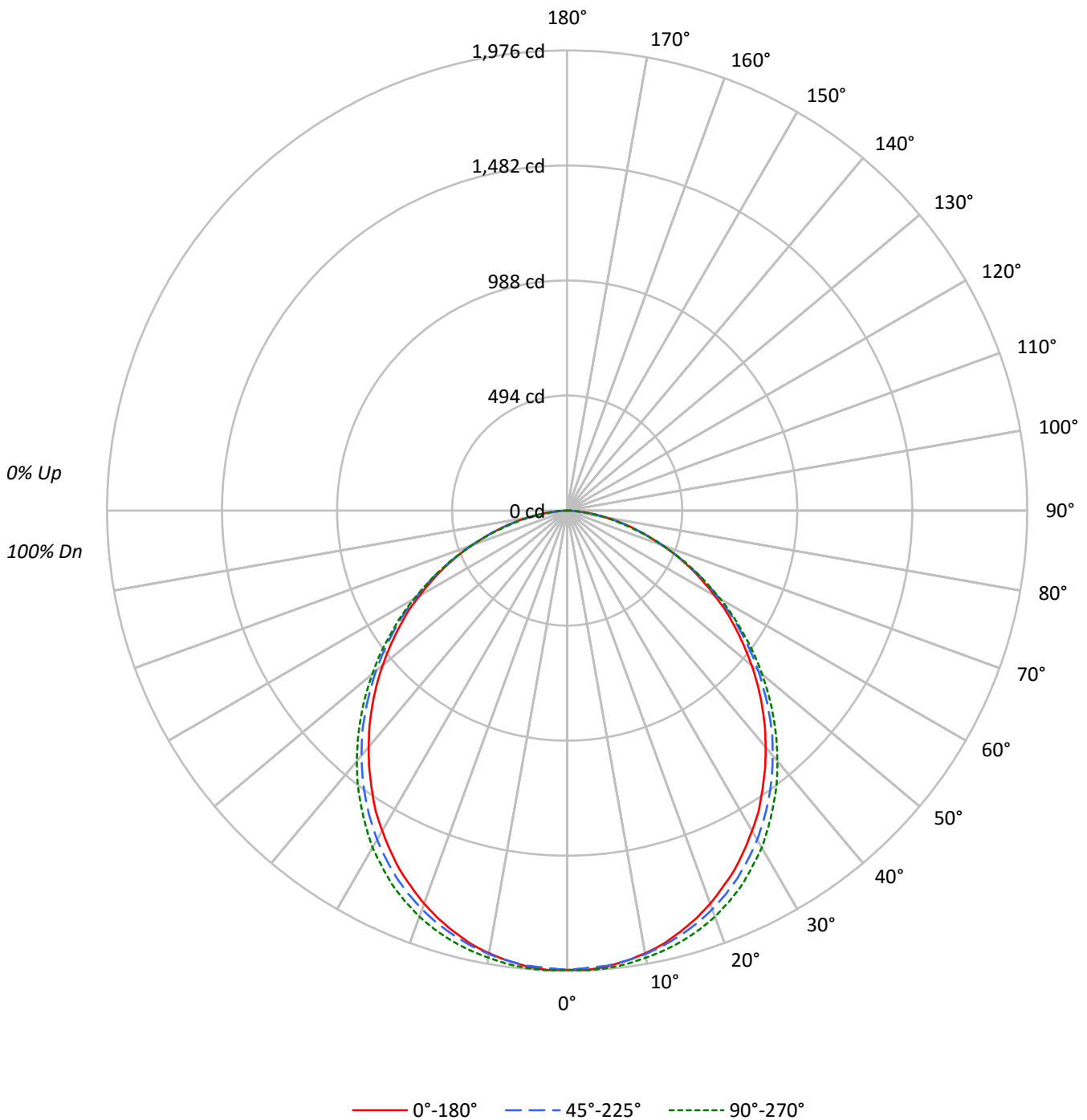
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2654	2654	2654
5°	2655	2650	2664
10°	2638	2642	2664
15°	2609	2628	2665
20°	2572	2609	2657
25°	2526	2578	2635
30°	2467	2535	2598
35°	2402	2479	2537
40°	2329	2412	2467
45°	2251	2334	2384
50°	2165	2245	2286
55°	2074	2139	2172
60°	1970	2021	2045
65°	1858	1886	1897
70°	1705	1725	1705
75°	1535	1526	1481
80°	1299	1286	1245
85°	971	943	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	3.6
10°-20°	533.5	10.3
20°-30°	799.9	15.4
30°-40°	942.0	18.2
40°-50°	942.1	18.2
50°-60°	812.9	15.7
60°-70°	584.9	11.3
70°-80°	310.3	6.0
80°-90°	74.0	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°	1520.1	29.3
0°-40°	2462.1	47.5
0°-60°	4217.1	81.3
0°-90°	5186.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5186.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1972	1972	1972	1972	1972	
5°	1966	1964	1962	1969	1972	186
15°	1873	1878	1887	1906	1913	528
25°	1702	1712	1737	1766	1775	783
35°	1462	1480	1510	1536	1544	915
45°	1183	1198	1226	1247	1253	912
55°	884	893	912	928	926	791
65°	584	585	592	596	596	577
75°	295	292	294	286	285	314
85°	63	63	61	56	54	76
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°	1974.2	1970.7	1965.5	1972.4	1975.9
5°	1965.5	1963.7	1962.0	1969.0	1972.4
7.5°	1949.7	1951.5	1949.7	1960.2	1963.7
10°	1930.5	1932.3	1934.0	1946.2	1949.7
12.5°	1906.1	1907.8	1913.0	1928.8	1934.0
15°	1872.9	1878.1	1886.8	1906.1	1913.0
17.5°	1837.9	1844.9	1857.1	1879.9	1886.8
20°	1796.0	1804.7	1822.2	1846.7	1855.4
22.5°	1748.8	1757.6	1782.0	1808.2	1817.0
25°	1701.7	1712.1	1736.6	1766.3	1775.0
27.5°	1645.7	1659.7	1685.9	1715.6	1722.6
30°	1588.1	1600.3	1631.8	1659.7	1672.0
32.5°	1530.4	1542.7	1572.4	1600.3	1609.1
35°	1462.3	1479.8	1509.5	1535.7	1544.4
37.5°	1395.9	1411.6	1443.1	1469.3	1478.0
40°	1326.0	1340.0	1373.2	1397.7	1404.6
42.5°	1256.1	1270.1	1303.3	1322.5	1329.5
45°	1182.8	1198.5	1226.4	1247.4	1252.7
47.5°	1109.4	1121.6	1147.8	1167.0	1174.0
50°	1034.3	1046.5	1072.7	1088.4	1091.9
52.5°	959.1	967.9	992.3	1006.3	1011.6
55°	884.0	892.8	912.0	927.7	925.9
57.5°	812.4	815.9	835.1	845.6	845.6
60°	732.0	735.5	751.2	758.2	760.0
62.5°	656.9	662.1	674.4	676.1	676.1
65°	583.5	585.3	592.3	595.8	595.8
67.5°	510.1	508.4	515.4	515.4	513.6
70°	433.3	436.8	438.5	435.0	433.3
72.5°	363.4	361.6	361.6	359.9	359.9
75°	295.3	291.8	293.5	286.5	284.8
77.5°	232.4	227.1	225.4	221.9	218.4
80°	167.7	167.7	166.0	162.5	160.7
82.5°	111.8	111.8	110.1	106.6	103.1
85°	62.9	62.9	61.1	55.9	54.2
87.5°	21.0	21.0	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)