

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: P258494

Luminaire Tested: **D3X-WO-45L830-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258494
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-45L830-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: 4245.7 lumens
Efficiency: N/A
Efficacy: 124.9 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

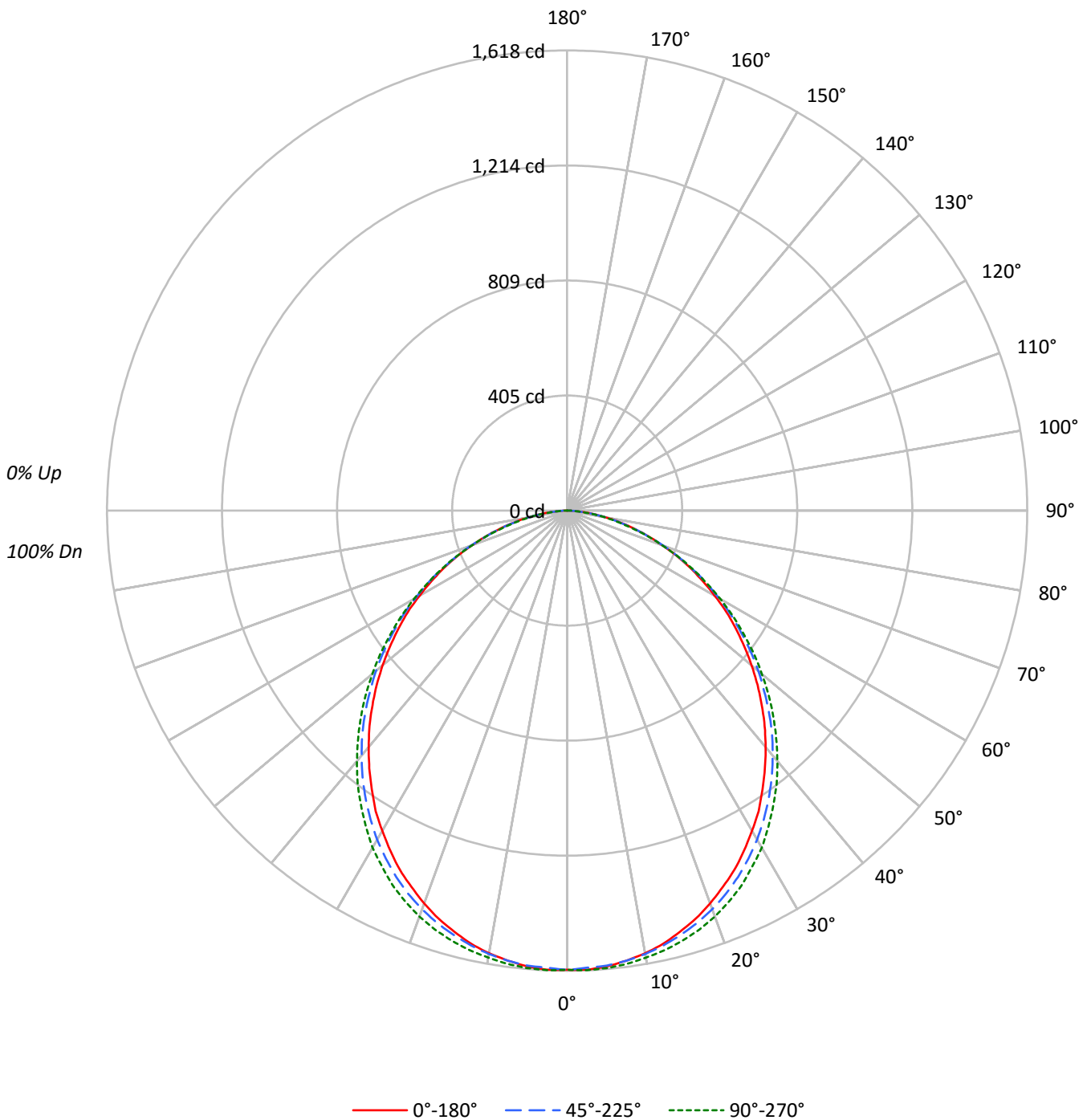
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2173	2173	2173
5°	2173	2169	2181
10°	2159	2163	2181
15°	2136	2152	2182
20°	2105	2136	2175
25°	2068	2110	2157
30°	2020	2075	2126
35°	1966	2030	2077
40°	1907	1975	2020
45°	1842	1910	1951
50°	1772	1838	1871
55°	1698	1751	1778
60°	1613	1655	1674
65°	1521	1543	1553
70°	1395	1412	1395
75°	1256	1249	1212
80°	1064	1053	1020
85°	795	773	684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.6
10°-20°	436.7	10.3
20°-30°	654.8	15.4
30°-40°	771.1	18.2
40°-50°	771.3	18.2
50°-60°	665.5	15.7
60°-70°	478.8	11.3
70°-80°	254.0	6.0
80°-90°	60.6	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°	1244.4	29.3
0°-40°	2015.6	47.5
0°-60°	3452.3	81.3
0°-90°	4245.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1609	1608	1606	1612	1615	153
15°	1533	1538	1545	1560	1566	432
25°	1393	1402	1422	1446	1453	641
35°	1197	1211	1236	1257	1264	749
45°	968	981	1004	1021	1026	747
55°	724	731	747	759	758	648
65°	478	479	485	488	488	472
75°	242	239	240	235	233	257
85°	52	52	50	46	44	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1616.1	1613.3	1609.0	1614.7	1617.6
5°	1609.0	1607.6	1606.1	1611.9	1614.7
7.5°	1596.1	1597.6	1596.1	1604.7	1607.6
10°	1580.4	1581.8	1583.3	1593.3	1596.1
12.5°	1560.4	1561.8	1566.1	1579.0	1583.3
15°	1533.2	1537.5	1544.6	1560.4	1566.1
17.5°	1504.6	1510.3	1520.3	1538.9	1544.6
20°	1470.3	1477.4	1491.7	1511.7	1518.9
22.5°	1431.6	1438.8	1458.8	1480.3	1487.4
25°	1393.0	1401.6	1421.6	1446.0	1453.1
27.5°	1347.3	1358.7	1380.2	1404.5	1410.2
30°	1300.1	1310.1	1335.8	1358.7	1368.7
32.5°	1252.9	1262.9	1287.2	1310.1	1317.2
35°	1197.1	1211.4	1235.7	1257.2	1264.3
37.5°	1142.7	1155.6	1181.4	1202.8	1210.0
40°	1085.5	1097.0	1124.2	1144.2	1149.9
42.5°	1028.3	1039.8	1066.9	1082.7	1088.4
45°	968.3	981.1	1004.0	1021.2	1025.5
47.5°	908.2	918.2	939.7	955.4	961.1
50°	846.7	856.7	878.2	891.0	893.9
52.5°	785.2	792.3	812.4	823.8	828.1
55°	723.7	730.8	746.6	759.4	758.0
57.5°	665.1	667.9	683.6	692.2	692.2
60°	599.3	602.1	615.0	620.7	622.1
62.5°	537.8	542.1	552.1	553.5	553.5
65°	477.7	479.1	484.8	487.7	487.7
67.5°	417.6	416.2	421.9	421.9	420.5
70°	354.7	357.6	359.0	356.1	354.7
72.5°	297.5	296.1	296.1	294.6	294.6
75°	241.7	238.8	240.3	234.6	233.1
77.5°	190.2	185.9	184.5	181.6	178.8
80°	137.3	137.3	135.9	133.0	131.6
82.5°	91.5	91.5	90.1	87.2	84.4
85°	51.5	51.5	50.1	45.8	44.3
87.5°	17.2	17.2	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)