

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: P258376

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258376
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-45L830-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3986.1 lumens
Efficiency: N/A
Efficacy: 117.2 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

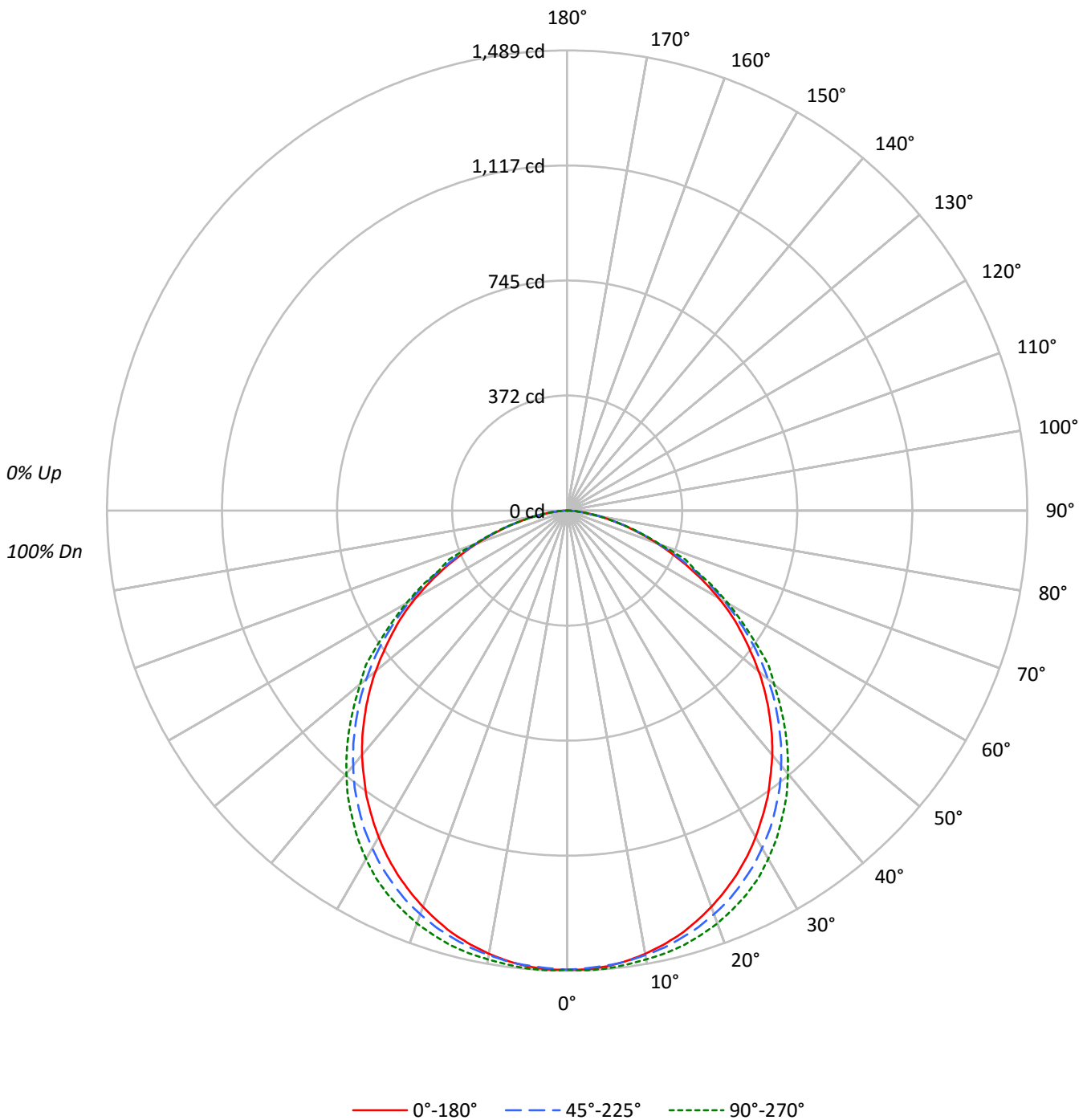
Input Watts (W): 34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1999	1999	1999
5°	1999	1995	2009
10°	1989	1995	2015
15°	1976	1994	2028
20°	1954	1991	2036
25°	1928	1979	2036
30°	1895	1960	2022
35°	1858	1931	1992
40°	1814	1892	1952
45°	1758	1840	1897
50°	1694	1775	1829
55°	1617	1691	1741
60°	1524	1582	1620
65°	1384	1430	1457
70°	1215	1244	1260
75°	1026	1041	1049
80°	820	831	809
85°	553	574	553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	3.5
10°-20°	405.0	10.2
20°-30°	614.5	15.4
30°-40°	733.6	18.4
40°-50°	742.7	18.6
50°-60°	642.0	16.1
60°-70°	444.9	11.2
70°-80°	215.3	5.4
80°-90°	47.3	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°	1160.3	29.1
0°-40°	1893.9	47.5
0°-60°	3278.6	82.2
0°-90°	3986.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3986.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1480	1479	1477	1485	1487	141
15°	1419	1422	1432	1449	1456	400
25°	1299	1307	1333	1360	1372	598
35°	1131	1141	1176	1206	1213	707
45°	924	937	967	991	997	713
55°	689	696	721	751	742	616
65°	435	439	449	456	458	430
75°	197	199	200	199	202	212
85°	36	39	37	36	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.0	1486.0	1486.0	1486.0	1486.0
2.5°	1486.0	1484.6	1481.7	1486.0	1488.9
5°	1480.3	1478.8	1477.4	1484.6	1487.4
7.5°	1470.3	1470.3	1471.7	1478.8	1481.7
10°	1456.0	1457.4	1460.3	1471.7	1474.6
12.5°	1438.8	1441.7	1448.8	1461.7	1467.4
15°	1418.8	1421.6	1431.7	1448.8	1456.0
17.5°	1393.0	1398.8	1413.1	1433.1	1440.2
20°	1364.4	1371.6	1390.2	1413.1	1421.6
22.5°	1333.0	1340.1	1364.4	1388.7	1397.3
25°	1298.6	1307.2	1333.0	1360.1	1371.6
27.5°	1261.5	1271.5	1300.1	1328.7	1340.1
30°	1220.0	1231.4	1261.5	1291.5	1301.5
32.5°	1175.6	1187.1	1221.4	1250.0	1260.0
35°	1131.3	1141.3	1175.6	1205.7	1212.8
37.5°	1081.2	1092.7	1129.9	1155.6	1165.6
40°	1032.6	1044.1	1077.0	1102.7	1111.3
42.5°	979.7	991.1	1024.0	1048.4	1055.5
45°	923.9	936.8	966.8	991.1	996.9
47.5°	868.1	878.2	909.6	931.1	935.4
50°	809.5	819.5	848.1	869.6	873.9
52.5°	748.0	763.7	786.6	802.4	820.9
55°	689.4	696.5	720.8	750.9	742.3
57.5°	630.7	635.0	655.0	667.9	670.8
60°	566.4	572.1	587.8	595.0	602.1
62.5°	499.1	503.4	522.0	529.2	532.0
65°	434.8	439.1	449.1	456.2	457.7
67.5°	369.0	373.3	381.9	387.6	413.3
70°	308.9	311.8	316.1	327.5	320.4
72.5°	251.7	253.1	257.4	257.4	258.9
75°	197.4	198.8	200.2	198.8	201.7
77.5°	147.3	150.2	151.6	150.2	148.7
80°	105.8	108.7	107.3	104.4	104.4
82.5°	68.7	70.1	68.7	67.2	67.2
85°	35.8	38.6	37.2	35.8	35.8
87.5°	12.9	14.3	15.7	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)