

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: P258390

Luminaire Tested: **D3X-WD-55L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258390
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-55L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5071.8 lumens
Efficiency: N/A
Efficacy: 118.8 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

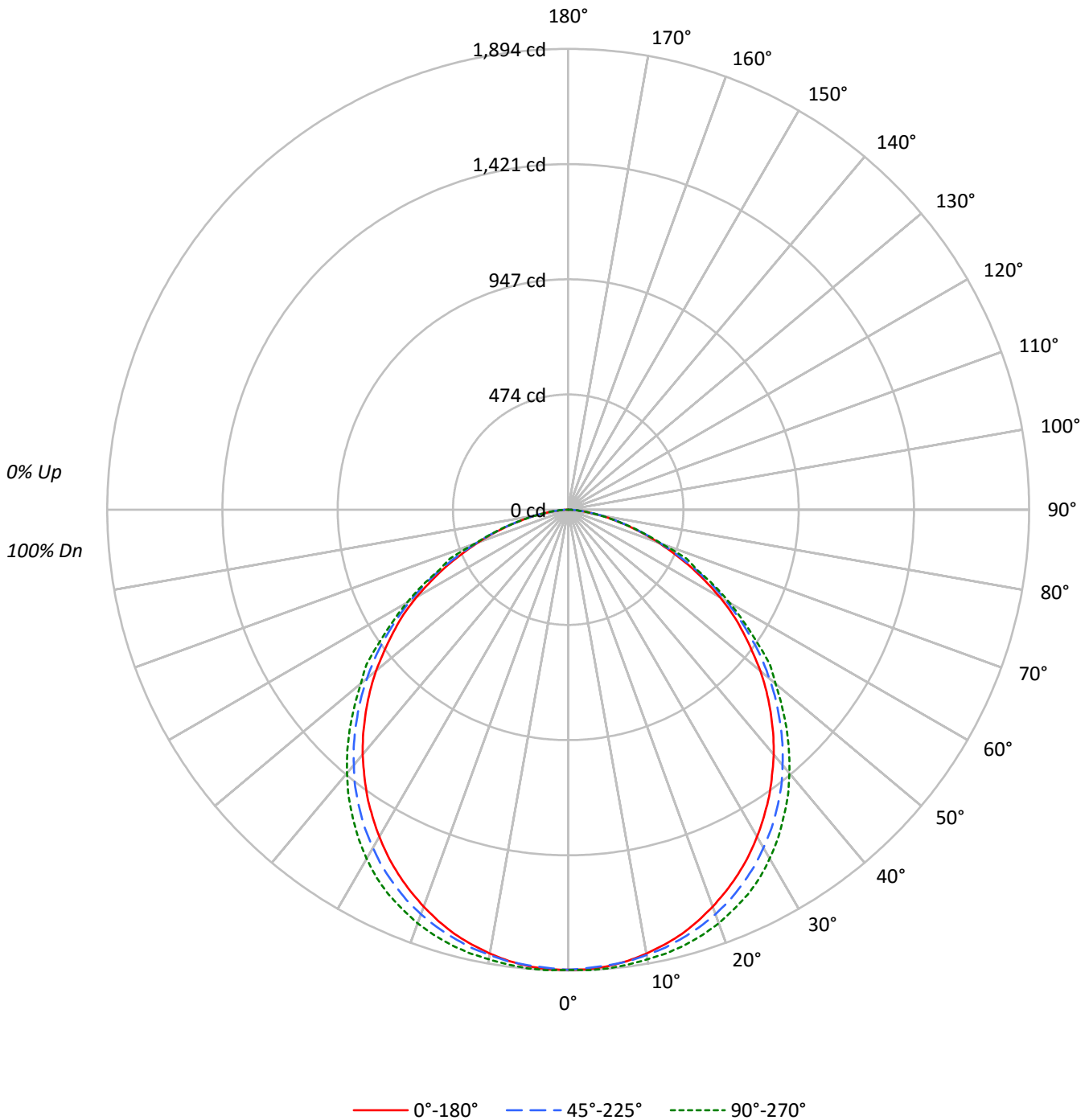
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2544	2544	2544
5°	2544	2539	2556
10°	2531	2538	2563
15°	2515	2537	2580
20°	2486	2533	2590
25°	2453	2518	2591
30°	2412	2494	2573
35°	2364	2457	2535
40°	2308	2407	2484
45°	2237	2341	2414
50°	2156	2259	2327
55°	2057	2152	2216
60°	1939	2013	2062
65°	1761	1819	1854
70°	1546	1582	1603
75°	1305	1325	1334
80°	1044	1058	1029
85°	702	730	702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	3.5
10°-20°	515.3	10.2
20°-30°	781.8	15.4
30°-40°	933.4	18.4
40°-50°	945.0	18.6
50°-60°	816.8	16.1
60°-70°	566.1	11.2
70°-80°	273.9	5.4
80°-90°	60.2	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°	1476.3	29.1
0°-40°	2409.7	47.5
0°-60°	4171.6	82.2
0°-90°	5071.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5071.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1884	1882	1880	1889	1893	179
15°	1805	1809	1822	1843	1852	509
25°	1652	1663	1696	1731	1745	761
35°	1439	1452	1496	1534	1543	899
45°	1176	1192	1230	1261	1268	907
55°	877	886	917	955	944	784
65°	553	559	571	580	582	547
75°	251	253	255	253	257	269
85°	46	49	47	46	46	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1890.7	1890.7	1890.7	1890.7	1890.7
2.5°	1890.7	1888.9	1885.3	1890.7	1894.4
5°	1883.5	1881.6	1879.8	1888.9	1892.6
7.5°	1870.7	1870.7	1872.6	1881.6	1885.3
10°	1852.5	1854.4	1858.0	1872.6	1876.2
12.5°	1830.7	1834.3	1843.4	1859.8	1867.1
15°	1805.2	1808.9	1821.6	1843.4	1852.5
17.5°	1772.5	1779.7	1797.9	1823.4	1832.5
20°	1736.1	1745.2	1768.8	1797.9	1808.9
22.5°	1696.0	1705.1	1736.1	1767.0	1777.9
25°	1652.4	1663.3	1696.0	1730.6	1745.2
27.5°	1605.0	1617.8	1654.2	1690.6	1705.1
30°	1552.3	1566.8	1605.0	1643.3	1656.0
32.5°	1495.9	1510.4	1554.1	1590.5	1603.2
35°	1439.4	1452.2	1495.9	1534.1	1543.2
37.5°	1375.8	1390.3	1437.6	1470.4	1483.1
40°	1313.9	1328.4	1370.3	1403.0	1414.0
42.5°	1246.5	1261.1	1303.0	1333.9	1343.0
45°	1175.6	1192.0	1230.2	1261.1	1268.4
47.5°	1104.6	1117.3	1157.4	1184.7	1190.1
50°	1030.0	1042.7	1079.1	1106.4	1111.9
52.5°	951.7	971.8	1000.9	1020.9	1044.6
55°	877.1	886.2	917.2	955.4	944.5
57.5°	802.5	808.0	833.5	849.8	853.5
60°	720.6	727.9	747.9	757.0	766.1
62.5°	635.1	640.6	664.2	673.3	677.0
65°	553.2	558.7	571.4	580.5	582.3
67.5°	469.5	475.0	485.9	493.2	525.9
70°	393.1	396.7	402.2	416.7	407.6
72.5°	320.3	322.1	327.6	327.6	329.4
75°	251.1	252.9	254.8	252.9	256.6
77.5°	187.4	191.1	192.9	191.1	189.3
80°	134.7	138.3	136.5	132.8	132.8
82.5°	87.3	89.2	87.3	85.5	85.5
85°	45.5	49.1	47.3	45.5	45.5
87.5°	16.4	18.2	20.0	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)