

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: P258449

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-55L840-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH RECTANGULAR PERF
Light Source: (252) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5080.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

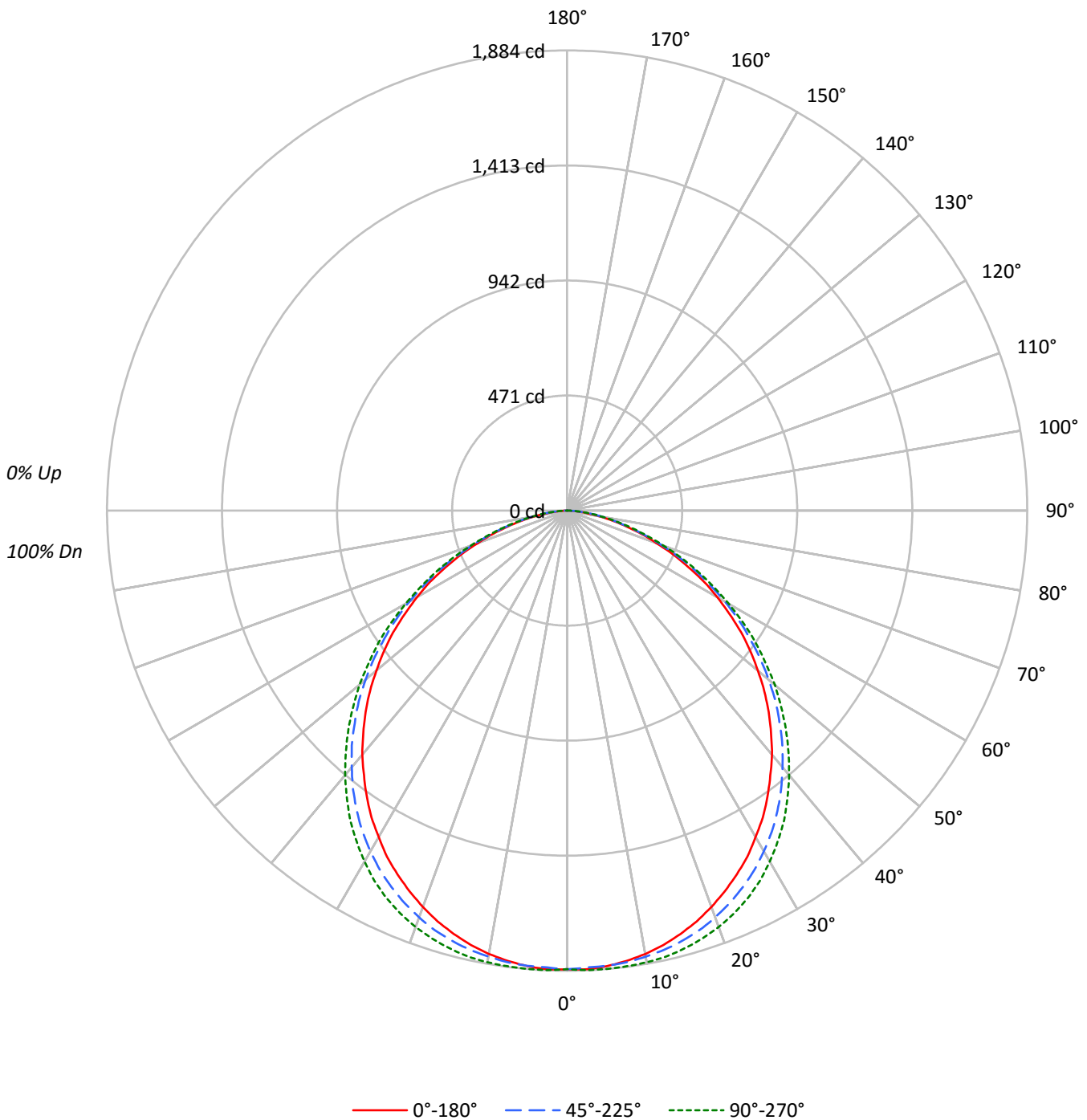
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258449

CATALOG NUMBER: D3X-WG-55L840-LD5-UNV-24-T1-STD

Luminous Intensity Polar Plot





TEST NUMBER: P258449

CATALOG NUMBER: D3X-WG-55L840-LD5-UNV-24-T1-STD

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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
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	47	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	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2527	2527	2527
5°	2529	2527	2544
10°	2519	2534	2566
15°	2499	2540	2586
20°	2473	2538	2598
25°	2440	2526	2599
30°	2398	2502	2578
35°	2349	2466	2544
40°	2292	2410	2484
45°	2220	2341	2410
50°	2133	2255	2324
55°	2041	2143	2211
60°	1910	2008	2057
65°	1744	1837	1883
70°	1532	1611	1654
75°	1296	1362	1409
80°	1029	1128	1156
85°	702	843	815



TEST NUMBER: P258449

CATALOG NUMBER: D3X-WG-55L840-LD5-UNV-24-T1-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.4	3.5
10°-20°	515.2	10.1
20°-30°	782.9	15.4
30°-40°	934.2	18.4
40°-50°	943.5	18.6
50°-60°	812.9	16.0
60°-70°	566.7	11.2
70°-80°	280.8	5.5
80°-90°	65.5	1.3
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°	1476.5	29.1
0°-40°	2410.7	47.5
0°-60°	4167.1	82.0
0°-90°	5080.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5080.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1872	1871	1871	1880	1884	178
15°	1794	1803	1823	1847	1856	506
25°	1643	1665	1702	1736	1751	757
35°	1430	1454	1501	1536	1549	894
45°	1166	1192	1230	1259	1267	899
55°	870	888	914	935	943	775
65°	548	559	577	582	591	544
75°	249	253	262	268	271	269
85°	46	55	55	51	53	58
90°	0	0	0	0	0	



TEST NUMBER: P258449

CATALOG NUMBER: D3X-WG-55L840-LD5-UNV-24-T1-STD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878.0	1878.0	1878.0	1878.0	1878.0
2.5°	1879.8	1876.2	1872.5	1879.8	1883.5
5°	1872.5	1870.7	1870.7	1879.8	1883.5
7.5°	1859.8	1859.8	1865.3	1878.0	1881.6
10°	1843.4	1847.1	1854.4	1872.5	1878.0
12.5°	1821.6	1828.9	1841.6	1863.5	1870.7
15°	1794.3	1803.4	1823.4	1847.1	1856.2
17.5°	1763.4	1776.1	1801.6	1828.9	1838.0
20°	1727.0	1743.3	1772.5	1803.4	1814.3
22.5°	1686.9	1707.0	1739.7	1772.5	1785.2
25°	1643.3	1665.1	1701.5	1736.1	1750.6
27.5°	1597.8	1619.6	1659.6	1694.2	1708.8
30°	1543.2	1568.6	1610.5	1646.9	1659.6
32.5°	1490.4	1515.9	1559.5	1592.3	1605.0
35°	1430.3	1454.0	1501.3	1535.9	1548.6
37.5°	1366.7	1393.9	1439.4	1470.4	1481.3
40°	1304.8	1328.4	1372.1	1403.0	1414.0
42.5°	1235.6	1261.1	1304.8	1332.1	1341.2
45°	1166.5	1192.0	1230.2	1259.3	1266.6
47.5°	1095.5	1119.2	1157.4	1181.0	1188.3
50°	1019.1	1040.9	1077.3	1101.0	1110.1
52.5°	946.3	966.3	997.2	1017.3	1022.7
55°	869.9	888.1	913.5	935.4	942.6
57.5°	788.0	808.0	831.6	849.8	855.3
60°	709.7	726.1	746.1	762.5	764.3
62.5°	633.3	640.6	658.8	673.3	675.1
65°	547.8	558.7	576.9	582.3	591.4
67.5°	469.5	476.8	491.3	498.6	505.9
70°	389.4	394.9	409.4	418.5	420.4
72.5°	320.3	322.1	333.0	340.3	342.1
75°	249.3	252.9	262.0	267.5	271.1
77.5°	189.3	192.9	200.2	203.8	203.8
80°	132.8	138.3	145.6	147.4	149.2
82.5°	85.5	92.8	98.3	100.1	96.4
85°	45.5	54.6	54.6	51.0	52.8
87.5°	16.4	20.0	21.8	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)