

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: P258507

Luminaire Tested: **D3X-WO-55L835-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258507
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-55L835-LD5-UNV-24-T1-STD
Description: CORELITE D3X 2X4 LED LUMINAIRE
Light Source: (252) 3500 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5402.1 lumens
Efficiency: N/A
Efficacy: 126.5 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

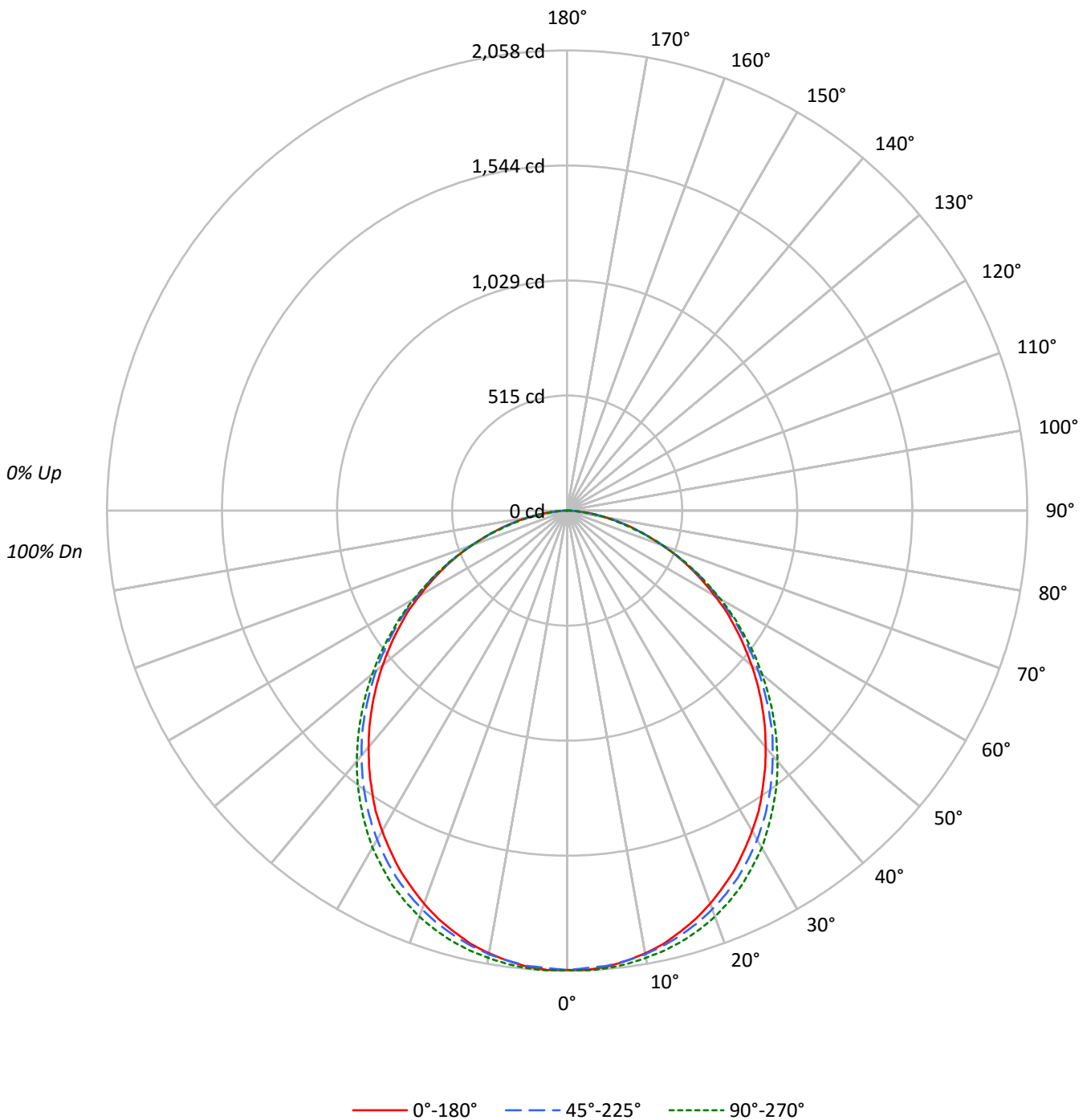
Input Watts (W): 42.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2764	2764	2764
5°	2765	2760	2775
10°	2747	2752	2775
15°	2717	2738	2776
20°	2679	2718	2767
25°	2631	2685	2745
30°	2570	2641	2706
35°	2502	2583	2642
40°	2426	2512	2570
45°	2344	2431	2483
50°	2255	2339	2381
55°	2160	2228	2263
60°	2052	2106	2130
65°	1935	1964	1975
70°	1775	1797	1775
75°	1599	1589	1542
80°	1354	1340	1297
85°	1011	983	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	3.6
10°-20°	555.7	10.3
20°-30°	833.2	15.4
30°-40°	981.2	18.2
40°-50°	981.3	18.2
50°-60°	846.7	15.7
60°-70°	609.3	11.3
70°-80°	323.2	6.0
80°-90°	77.1	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°	1583.4	29.3
0°-40°	2564.5	47.5
0°-60°	4392.6	81.3
0°-90°	5402.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2047	2045	2044	2051	2054	194
15°	1951	1956	1965	1985	1993	550
25°	1772	1783	1809	1840	1849	815
35°	1523	1541	1572	1600	1609	953
45°	1232	1248	1278	1299	1305	950
55°	921	930	950	966	964	824
65°	608	610	617	620	620	601
75°	308	304	306	298	297	327
85°	66	66	64	58	56	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054.5	2054.5	2054.5	2054.5	2054.5
2.5°	2056.3	2052.7	2047.2	2054.5	2058.2
5°	2047.2	2045.4	2043.6	2050.9	2054.5
7.5°	2030.9	2032.7	2030.9	2041.8	2045.4
10°	2010.9	2012.7	2014.5	2027.2	2030.9
12.5°	1985.4	1987.2	1992.7	2009.0	2014.5
15°	1950.8	1956.3	1965.4	1985.4	1992.7
17.5°	1914.4	1921.7	1934.4	1958.1	1965.4
20°	1870.7	1879.8	1898.0	1923.5	1932.6
22.5°	1821.6	1830.7	1856.2	1883.5	1892.6
25°	1772.5	1783.4	1808.9	1839.8	1848.9
27.5°	1714.2	1728.8	1756.1	1787.0	1794.3
30°	1654.2	1666.9	1699.7	1728.8	1741.5
32.5°	1594.1	1606.9	1637.8	1666.9	1676.0
35°	1523.2	1541.3	1572.3	1599.6	1608.7
37.5°	1454.0	1470.4	1503.1	1530.4	1539.5
40°	1381.2	1395.8	1430.3	1455.8	1463.1
42.5°	1308.4	1323.0	1357.6	1377.6	1384.8
45°	1232.0	1248.4	1277.5	1299.3	1304.8
47.5°	1155.6	1168.3	1195.6	1215.6	1222.9
50°	1077.3	1090.0	1117.3	1133.7	1137.4
52.5°	999.1	1008.2	1033.6	1048.2	1053.6
55°	920.8	929.9	949.9	966.3	964.5
57.5°	846.2	849.8	869.9	880.8	880.8
60°	762.5	766.1	782.5	789.8	791.6
62.5°	684.2	689.7	702.4	704.3	704.3
65°	607.8	609.6	616.9	620.5	620.5
67.5°	531.4	529.6	536.8	536.8	535.0
70°	451.3	454.9	456.8	453.1	451.3
72.5°	378.5	376.7	376.7	374.9	374.9
75°	307.5	303.9	305.7	298.4	296.6
77.5°	242.0	236.6	234.8	231.1	227.5
80°	174.7	174.7	172.9	169.2	167.4
82.5°	116.5	116.5	114.6	111.0	107.4
85°	65.5	65.5	63.7	58.2	56.4
87.5°	21.8	21.8	21.8	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)