

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: P296809

Luminaire Tested: **D3X-WD-55L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-55L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5363.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

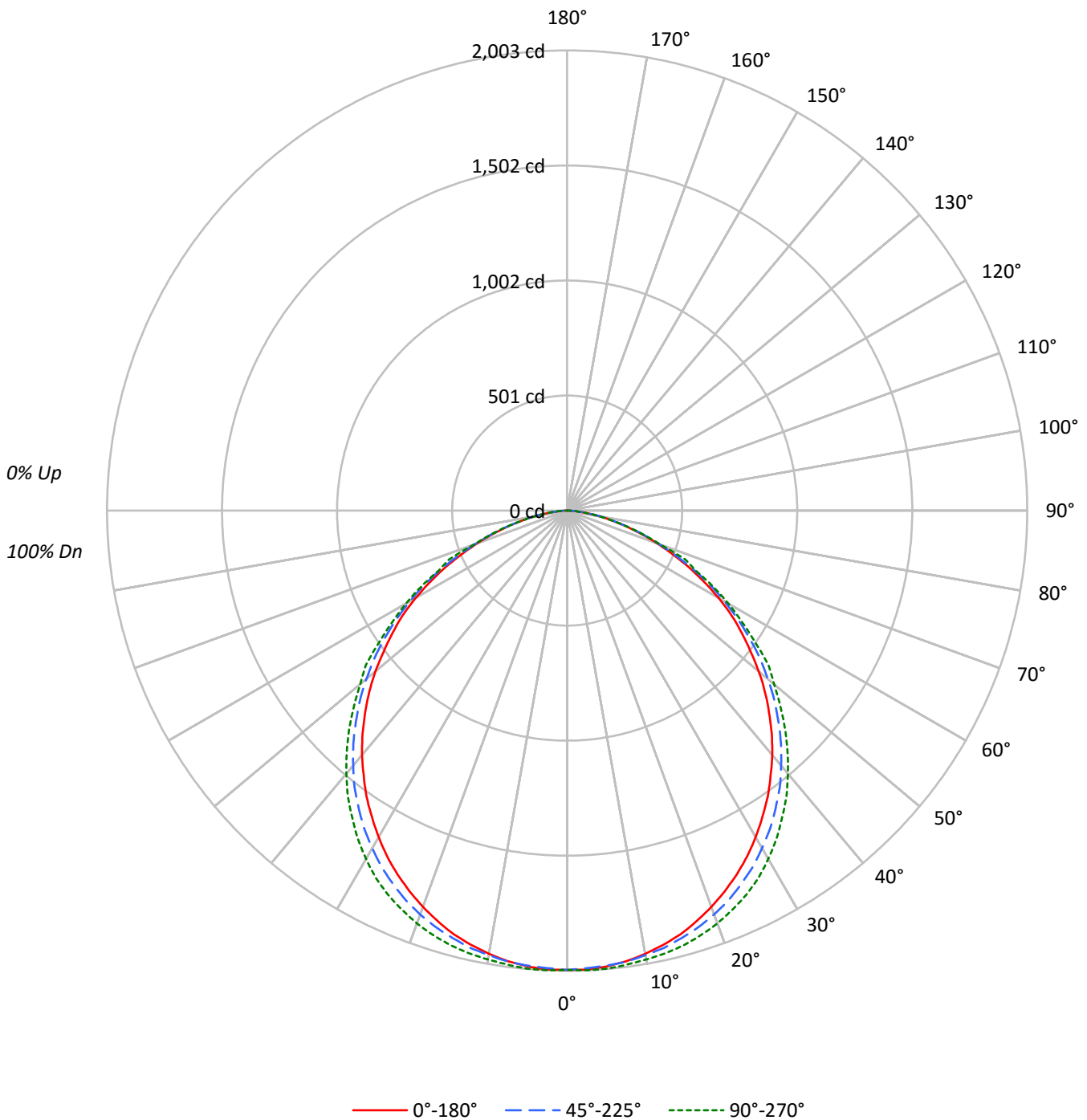
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2690	2690	2690
5°	2690	2685	2703
10°	2676	2684	2710
15°	2659	2683	2729
20°	2628	2678	2739
25°	2594	2662	2740
30°	2550	2637	2721
35°	2500	2598	2680
40°	2440	2545	2626
45°	2365	2475	2552
50°	2280	2389	2461
55°	2176	2275	2343
60°	2051	2128	2180
65°	1862	1924	1961
70°	1635	1673	1696
75°	1380	1400	1410
80°	1103	1118	1089
85°	743	772	743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.5	3.5
10°-20°	544.9	10.2
20°-30°	826.7	15.4
30°-40°	987.0	18.4
40°-50°	999.2	18.6
50°-60°	863.7	16.1
60°-70°	598.6	11.2
70°-80°	289.7	5.4
80°-90°	63.7	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°	1561.1	29.1
0°-40°	2548.1	47.5
0°-60°	4411.0	82.2
0°-90°	5363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	1992	1990	1988	1997	2001	189
15°	1909	1913	1926	1949	1959	538
25°	1747	1759	1793	1830	1845	805
35°	1522	1536	1582	1622	1632	951
45°	1243	1260	1301	1334	1341	959
55°	928	937	970	1010	999	829
65°	585	591	604	614	616	579
75°	266	268	269	268	271	285
85°	48	52	50	48	48	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	1999.3	1997.4	1993.5	1999.3	2003.1
5°	1991.6	1989.7	1987.7	1997.4	2001.2
7.5°	1978.1	1978.1	1980.0	1989.7	1993.5
10°	1958.9	1960.8	1964.7	1980.0	1983.9
12.5°	1935.8	1939.6	1949.3	1966.6	1974.3
15°	1908.8	1912.7	1926.2	1949.3	1958.9
17.5°	1874.2	1881.9	1901.2	1928.1	1937.7
20°	1835.7	1845.3	1870.4	1901.2	1912.7
22.5°	1793.4	1803.0	1835.7	1868.4	1880.0
25°	1747.2	1758.8	1793.4	1830.0	1845.3
27.5°	1697.2	1710.7	1749.1	1787.6	1803.0
30°	1641.4	1656.8	1697.2	1737.6	1751.1
32.5°	1581.7	1597.1	1643.3	1681.8	1695.3
35°	1522.1	1535.5	1581.7	1622.1	1631.8
37.5°	1454.7	1470.1	1520.2	1554.8	1568.3
40°	1389.3	1404.7	1449.0	1483.6	1495.1
42.5°	1318.1	1333.5	1377.8	1410.5	1420.1
45°	1243.1	1260.4	1300.8	1333.5	1341.2
47.5°	1168.0	1181.5	1223.8	1252.7	1258.5
50°	1089.1	1102.6	1141.1	1169.9	1175.7
52.5°	1006.4	1027.5	1058.3	1079.5	1104.5
55°	927.5	937.1	969.8	1010.2	998.7
57.5°	848.6	854.4	881.3	898.6	902.5
60°	762.0	769.7	790.9	800.5	810.1
62.5°	671.6	677.3	702.3	712.0	715.8
65°	585.0	590.7	604.2	613.8	615.8
67.5°	496.5	502.2	513.8	521.5	556.1
70°	415.6	419.5	425.3	440.7	431.0
72.5°	338.7	340.6	346.4	346.4	348.3
75°	265.5	267.5	269.4	267.5	271.3
77.5°	198.2	202.0	204.0	202.0	200.1
80°	142.4	146.2	144.3	140.5	140.5
82.5°	92.4	94.3	92.4	90.4	90.4
85°	48.1	52.0	50.0	48.1	48.1
87.5°	17.3	19.2	21.2	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)