

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: P297089

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5373.0 lumens
Efficiency: N/A
Efficacy: 137.1 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

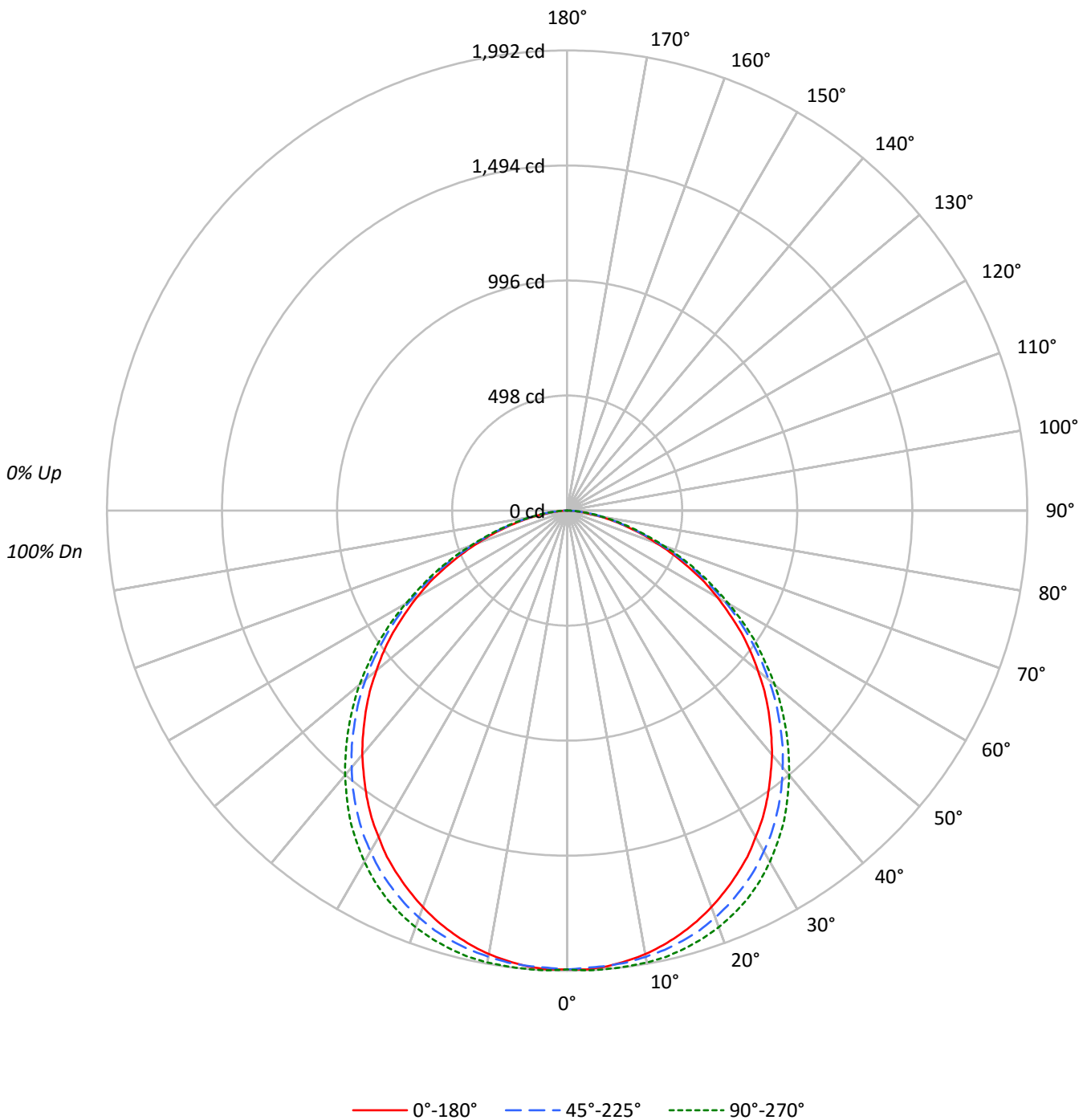
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2673	2673	2673
5°	2675	2672	2691
10°	2664	2680	2714
15°	2643	2686	2735
20°	2615	2684	2748
25°	2580	2672	2749
30°	2536	2646	2727
35°	2485	2608	2690
40°	2424	2549	2627
45°	2347	2476	2549
50°	2256	2385	2458
55°	2158	2267	2339
60°	2020	2123	2175
65°	1844	1942	1991
70°	1620	1704	1749
75°	1371	1441	1491
80°	1089	1193	1223
85°	743	891	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	3.5
10°-20°	544.9	10.1
20°-30°	828.0	15.4
30°-40°	988.1	18.4
40°-50°	997.9	18.6
50°-60°	859.8	16.0
60°-70°	599.4	11.2
70°-80°	297.0	5.5
80°-90°	69.3	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°	1561.7	29.1
0°-40°	2549.7	47.5
0°-60°	4407.4	82.0
0°-90°	5373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5373.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1980	1979	1979	1988	1992	188
15°	1898	1907	1928	1954	1963	535
25°	1738	1761	1800	1836	1852	801
35°	1513	1538	1588	1624	1638	946
45°	1234	1261	1301	1332	1340	951
55°	920	939	966	989	997	820
65°	579	591	610	616	626	575
75°	264	268	277	283	287	284
85°	48	58	58	54	56	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1988.2	1984.4	1980.5	1988.2	1992.1
5°	1980.5	1978.6	1978.6	1988.2	1992.1
7.5°	1967.0	1967.0	1972.8	1986.3	1990.1
10°	1949.7	1953.6	1961.3	1980.5	1986.3
12.5°	1926.6	1934.3	1947.8	1970.9	1978.6
15°	1897.7	1907.4	1928.5	1953.6	1963.2
17.5°	1865.0	1878.5	1905.4	1934.3	1943.9
20°	1826.5	1843.9	1874.7	1907.4	1918.9
22.5°	1784.2	1805.4	1840.0	1874.7	1888.1
25°	1738.0	1761.1	1799.6	1836.2	1851.6
27.5°	1689.9	1713.0	1755.3	1791.9	1807.3
30°	1632.1	1659.1	1703.4	1741.8	1755.3
32.5°	1576.3	1603.3	1649.5	1684.1	1697.6
35°	1512.8	1537.8	1587.9	1624.4	1637.9
37.5°	1445.4	1474.3	1522.4	1555.2	1566.7
40°	1380.0	1405.0	1451.2	1483.9	1495.5
42.5°	1306.9	1333.8	1380.0	1408.9	1418.5
45°	1233.7	1260.7	1301.1	1331.9	1339.6
47.5°	1158.7	1183.7	1224.1	1249.1	1256.8
50°	1077.8	1100.9	1139.4	1164.4	1174.1
52.5°	1000.8	1022.0	1054.7	1075.9	1081.7
55°	920.0	939.3	966.2	989.3	997.0
57.5°	833.4	854.6	879.6	898.8	904.6
60°	750.6	768.0	789.1	806.4	808.4
62.5°	669.8	677.5	696.7	712.1	714.1
65°	579.3	590.9	610.1	615.9	625.5
67.5°	496.6	504.3	519.7	527.4	535.1
70°	411.9	417.7	433.1	442.7	444.6
72.5°	338.7	340.7	352.2	359.9	361.8
75°	263.7	267.5	277.2	282.9	286.8
77.5°	200.2	204.0	211.7	215.6	215.6
80°	140.5	146.3	154.0	155.9	157.8
82.5°	90.5	98.2	103.9	105.9	102.0
85°	48.1	57.7	57.7	53.9	55.8
87.5°	17.3	21.2	23.1	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)