

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: P297010

Luminaire Tested: **D3X-WG-50L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297010
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-50L83050-LD5-UNV-24-T1-W2A-3500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4693.0 lumens
Efficiency: N/A
Efficacy: 134.1 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

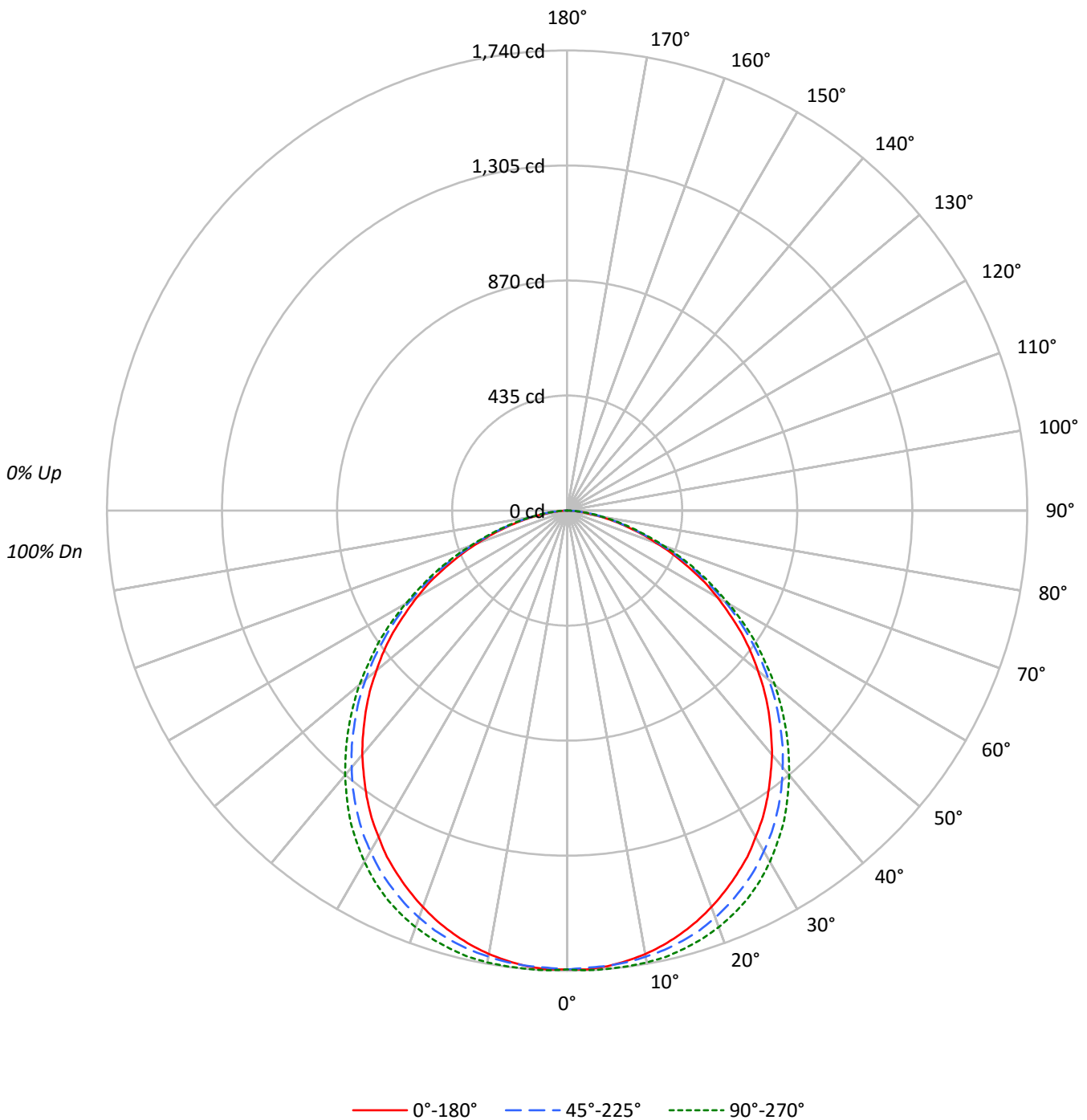
Input Watts (W): 35
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2334	2334	2334
5°	2336	2334	2350
10°	2327	2340	2370
15°	2309	2346	2388
20°	2284	2344	2400
25°	2254	2333	2401
30°	2215	2312	2382
35°	2170	2278	2350
40°	2117	2226	2294
45°	2050	2162	2226
50°	1971	2083	2147
55°	1885	1980	2043
60°	1764	1855	1900
65°	1611	1697	1740
70°	1415	1488	1528
75°	1197	1259	1302
80°	951	1042	1068
85°	648	778	753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.5
10°-20°	475.9	10.1
20°-30°	723.2	15.4
30°-40°	863.0	18.4
40°-50°	871.6	18.6
50°-60°	751.0	16.0
60°-70°	523.5	11.2
70°-80°	259.4	5.5
80°-90°	60.5	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°	1364.0	29.1
0°-40°	2227.0	47.5
0°-60°	3849.6	82.0
0°-90°	4693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1730	1728	1728	1737	1740	164
15°	1658	1666	1684	1706	1715	467
25°	1518	1538	1572	1604	1617	699
35°	1321	1343	1387	1419	1431	826
45°	1078	1101	1136	1163	1170	831
55°	804	820	844	864	871	716
65°	506	516	533	538	546	502
75°	230	234	242	247	250	248
85°	42	50	50	47	49	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.9	1734.9	1734.9	1734.9	1734.9
2.5°	1736.6	1733.2	1729.9	1736.6	1739.9
5°	1729.9	1728.2	1728.2	1736.6	1739.9
7.5°	1718.1	1718.1	1723.1	1734.9	1738.3
10°	1703.0	1706.3	1713.0	1729.9	1734.9
12.5°	1682.8	1689.5	1701.3	1721.5	1728.2
15°	1657.6	1666.0	1684.5	1706.3	1714.7
17.5°	1629.0	1640.8	1664.3	1689.5	1697.9
20°	1595.4	1610.5	1637.4	1666.0	1676.1
22.5°	1558.4	1576.9	1607.1	1637.4	1649.2
25°	1518.0	1538.2	1571.8	1603.8	1617.2
27.5°	1476.0	1496.2	1533.2	1565.1	1578.6
30°	1425.6	1449.1	1487.8	1521.4	1533.2
32.5°	1376.8	1400.4	1440.7	1471.0	1482.7
35°	1321.4	1343.2	1386.9	1418.9	1430.6
37.5°	1262.5	1287.7	1329.8	1358.3	1368.4
40°	1205.4	1227.2	1267.6	1296.1	1306.2
42.5°	1141.5	1165.0	1205.4	1230.6	1239.0
45°	1077.6	1101.1	1136.4	1163.3	1170.1
47.5°	1012.0	1033.9	1069.2	1091.0	1097.8
50°	941.4	961.6	995.2	1017.1	1025.5
52.5°	874.2	892.7	921.2	939.7	944.8
55°	803.6	820.4	843.9	864.1	870.8
57.5°	727.9	746.4	768.3	785.1	790.1
60°	655.6	670.8	689.3	704.4	706.1
62.5°	585.0	591.7	608.6	622.0	623.7
65°	506.0	516.1	532.9	538.0	546.4
67.5°	433.7	440.5	453.9	460.6	467.3
70°	359.8	364.8	378.2	386.7	388.3
72.5°	295.9	297.6	307.6	314.4	316.0
75°	230.3	233.7	242.1	247.1	250.5
77.5°	174.8	178.2	184.9	188.3	188.3
80°	122.7	127.8	134.5	136.2	137.9
82.5°	79.0	85.7	90.8	92.5	89.1
85°	42.0	50.4	50.4	47.1	48.8
87.5°	15.1	18.5	20.2	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)