

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: P296801

Luminaire Tested: **D3X-WD-50L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296801
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-50L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4872.0 lumens
Efficiency: N/A
Efficacy: 135.3 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

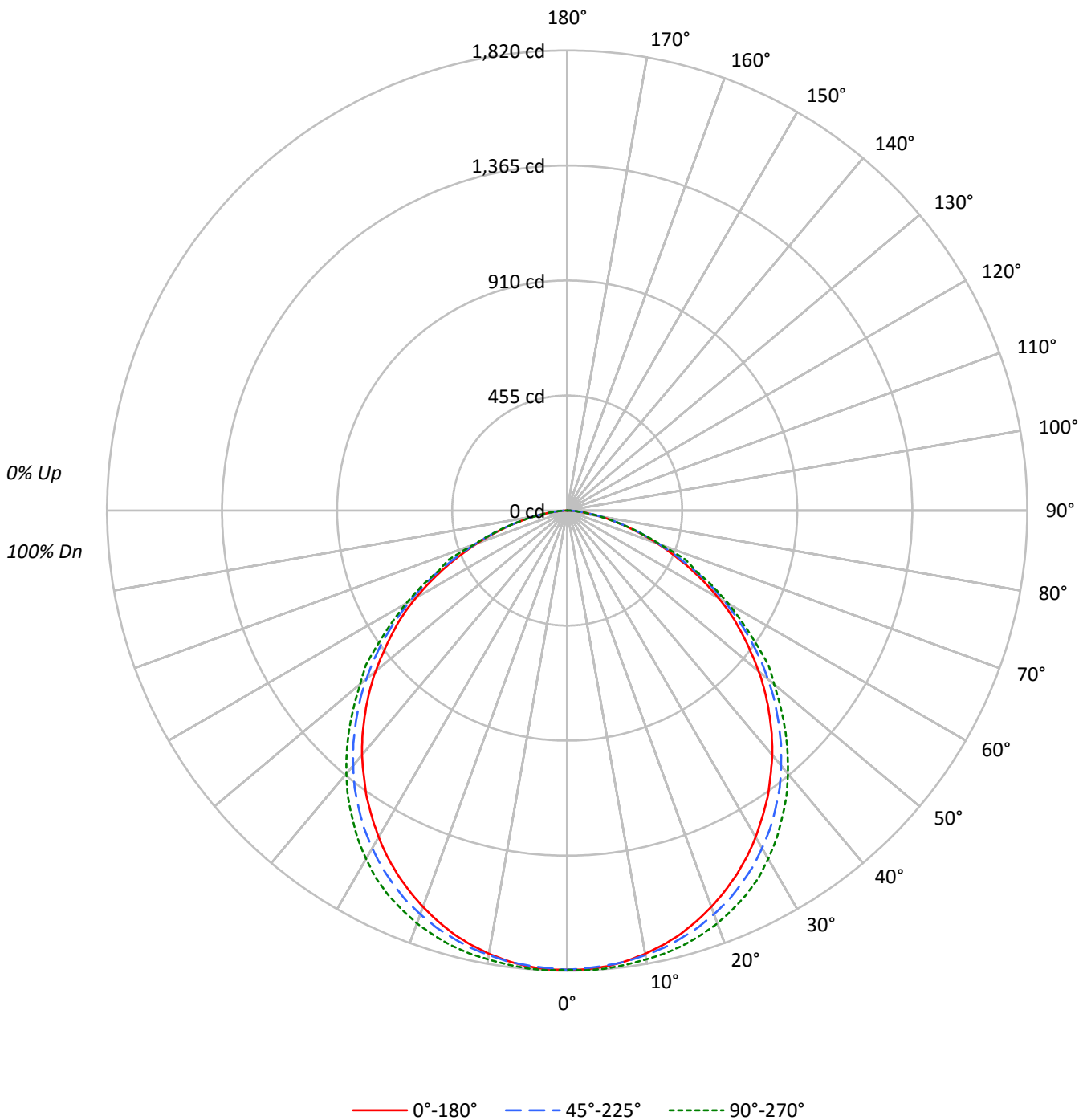
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
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	48	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	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2444	2444	2444
5°	2444	2439	2455
10°	2431	2438	2462
15°	2416	2437	2479
20°	2388	2433	2488
25°	2356	2419	2489
30°	2317	2395	2471
35°	2271	2360	2435
40°	2217	2312	2386
45°	2149	2249	2318
50°	2071	2170	2236
55°	1977	2067	2128
60°	1863	1933	1980
65°	1692	1748	1781
70°	1485	1520	1541
75°	1254	1272	1281
80°	1003	1016	989
85°	675	701	675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.5
10°-20°	495.0	10.2
20°-30°	751.0	15.4
30°-40°	896.6	18.4
40°-50°	907.8	18.6
50°-60°	784.6	16.1
60°-70°	543.8	11.2
70°-80°	263.1	5.4
80°-90°	57.9	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°	1418.1	29.1
0°-40°	2314.8	47.5
0°-60°	4007.2	82.2
0°-90°	4872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1816	1816	1816	1816	1816	
5°	1809	1808	1806	1814	1818	172
15°	1734	1738	1750	1771	1780	489
25°	1587	1598	1629	1662	1676	731
35°	1383	1395	1437	1474	1482	864
45°	1129	1145	1182	1211	1218	871
55°	843	851	881	918	907	753
65°	531	537	549	558	559	526
75°	241	243	245	243	246	259
85°	44	47	45	44	44	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.2	1816.2	1816.2	1816.2	1816.2
2.5°	1816.2	1814.5	1811.0	1816.2	1819.7
5°	1809.3	1807.5	1805.8	1814.5	1818.0
7.5°	1797.0	1797.0	1798.8	1807.5	1811.0
10°	1779.5	1781.3	1784.8	1798.8	1802.3
12.5°	1758.6	1762.1	1770.8	1786.5	1793.5
15°	1734.1	1737.6	1749.8	1770.8	1779.5
17.5°	1702.6	1709.6	1727.1	1751.6	1760.3
20°	1667.7	1676.4	1699.1	1727.1	1737.6
22.5°	1629.2	1637.9	1667.7	1697.4	1707.9
25°	1587.2	1597.7	1629.2	1662.4	1676.4
27.5°	1541.8	1554.0	1589.0	1624.0	1637.9
30°	1491.1	1505.1	1541.8	1578.5	1590.7
32.5°	1436.9	1450.9	1492.9	1527.8	1540.1
35°	1382.7	1395.0	1436.9	1473.6	1482.4
37.5°	1321.5	1335.5	1381.0	1412.4	1424.7
40°	1262.1	1276.1	1316.3	1347.8	1358.3
42.5°	1197.4	1211.4	1251.6	1281.3	1290.1
45°	1129.3	1145.0	1181.7	1211.4	1218.4
47.5°	1061.1	1073.3	1111.8	1138.0	1143.2
50°	989.4	1001.6	1036.6	1062.8	1068.1
52.5°	914.2	933.5	961.4	980.7	1003.4
55°	842.6	851.3	881.0	917.7	907.2
57.5°	770.9	776.1	800.6	816.3	819.8
60°	692.2	699.2	718.5	727.2	735.9
62.5°	610.1	615.3	638.0	646.8	650.3
65°	531.4	536.7	548.9	557.6	559.4
67.5°	451.0	456.2	466.7	473.7	505.2
70°	377.6	381.1	386.3	400.3	391.6
72.5°	307.7	309.4	314.7	314.7	316.4
75°	241.2	243.0	244.7	243.0	246.5
77.5°	180.1	183.5	185.3	183.5	181.8
80°	129.4	132.9	131.1	127.6	127.6
82.5°	83.9	85.7	83.9	82.2	82.2
85°	43.7	47.2	45.4	43.7	43.7
87.5°	15.7	17.5	19.2	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)