

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: P297359

Luminaire Tested: **D3X-WO-50L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-50L82765-LD5-UNV-24-T1-W2A-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5070.0 lumens
Efficiency: N/A
Efficacy: 142.4 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

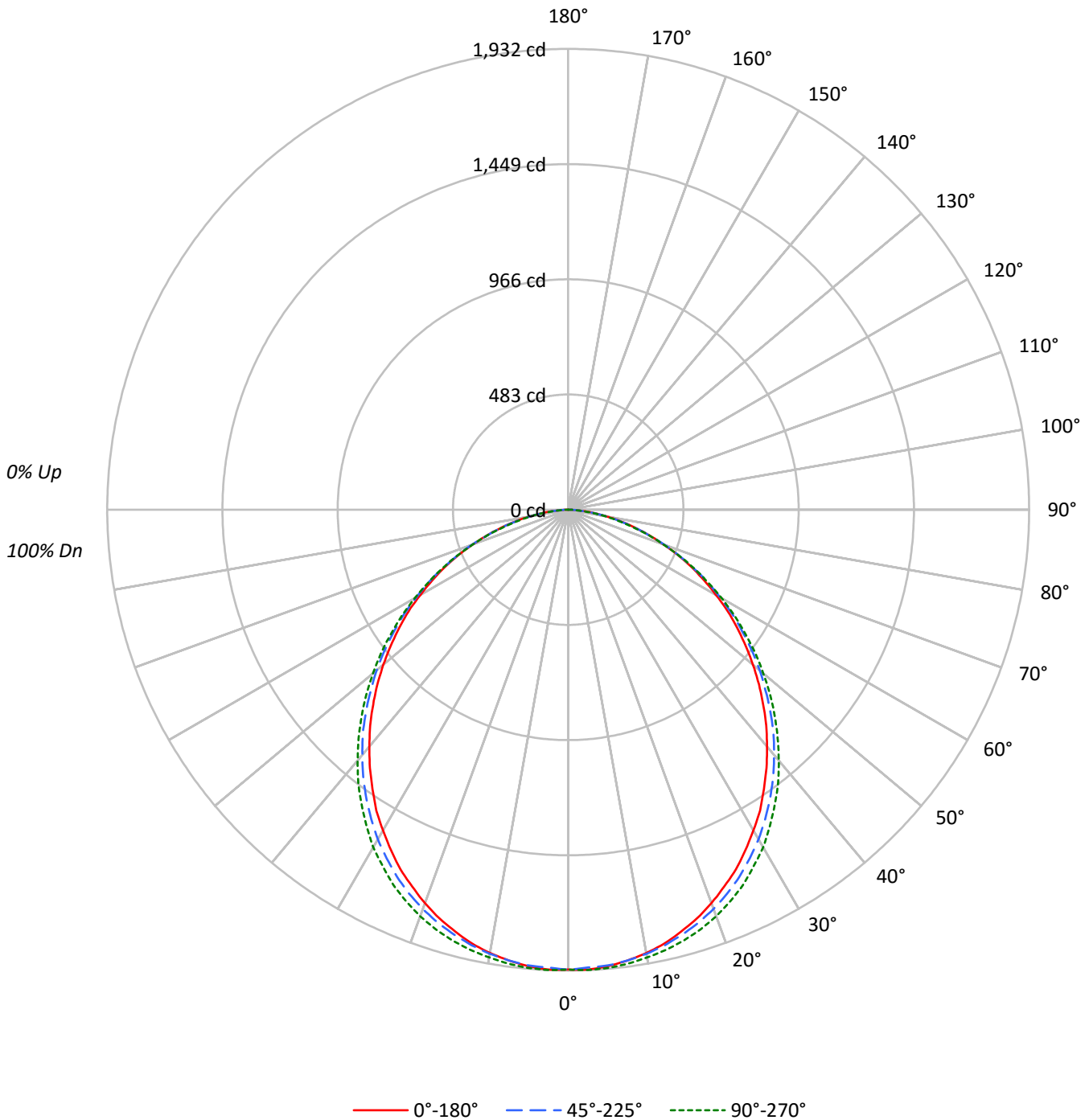
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	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	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	2594	2594	2594
5°	2595	2591	2604
10°	2578	2583	2604
15°	2550	2569	2605
20°	2514	2551	2597
25°	2470	2520	2576
30°	2412	2478	2539
35°	2348	2424	2480
40°	2277	2358	2412
45°	2200	2281	2330
50°	2116	2195	2234
55°	2027	2091	2123
60°	1926	1976	1999
65°	1816	1843	1854
70°	1666	1686	1666
75°	1500	1491	1447
80°	1271	1258	1217
85°	949	923	817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	3.6
10°-20°	521.5	10.3
20°-30°	781.9	15.4
30°-40°	920.9	18.2
40°-50°	921.0	18.2
50°-60°	794.7	15.7
60°-70°	571.8	11.3
70°-80°	303.3	6.0
80°-90°	72.3	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°	1486.0	29.3
0°-40°	2406.9	47.5
0°-60°	4122.5	81.3
0°-90°	5070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1921	1920	1918	1925	1928	182
15°	1831	1836	1844	1863	1870	516
25°	1664	1674	1698	1727	1735	765
35°	1430	1447	1476	1501	1510	894
45°	1156	1172	1199	1219	1225	892
55°	864	873	892	907	905	773
65°	570	572	579	582	582	564
75°	289	285	287	280	278	307
85°	62	62	60	55	53	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	1929.9	1926.5	1921.4	1928.2	1931.6
5°	1921.4	1919.7	1918.0	1924.8	1928.2
7.5°	1906.0	1907.7	1906.0	1916.3	1919.7
10°	1887.2	1888.9	1890.6	1902.6	1906.0
12.5°	1863.3	1865.0	1870.1	1885.5	1890.6
15°	1830.9	1836.0	1844.5	1863.3	1870.1
17.5°	1796.7	1803.5	1815.5	1837.7	1844.5
20°	1755.7	1764.3	1781.3	1805.2	1813.8
22.5°	1709.6	1718.1	1742.1	1767.7	1776.2
25°	1663.5	1673.7	1697.6	1726.7	1735.2
27.5°	1608.8	1622.5	1648.1	1677.2	1684.0
30°	1552.5	1564.4	1595.2	1622.5	1634.5
32.5°	1496.1	1508.1	1537.1	1564.4	1573.0
35°	1429.5	1446.6	1475.6	1501.2	1509.8
37.5°	1364.6	1380.0	1410.7	1436.3	1444.9
40°	1296.3	1310.0	1342.4	1366.3	1373.1
42.5°	1228.0	1241.6	1274.1	1292.9	1299.7
45°	1156.2	1171.6	1198.9	1219.4	1224.6
47.5°	1084.5	1096.5	1122.1	1140.9	1147.7
50°	1011.1	1023.0	1048.6	1064.0	1067.4
52.5°	937.6	946.2	970.1	983.7	988.9
55°	864.2	872.7	891.5	906.9	905.2
57.5°	794.2	797.6	816.4	826.6	826.6
60°	715.6	719.0	734.4	741.2	742.9
62.5°	642.2	647.3	659.2	661.0	661.0
65°	570.4	572.1	579.0	582.4	582.4
67.5°	498.7	497.0	503.8	503.8	502.1
70°	423.6	427.0	428.7	425.3	423.6
72.5°	355.2	353.5	353.5	351.8	351.8
75°	288.6	285.2	286.9	280.1	278.4
77.5°	227.2	222.0	220.3	216.9	213.5
80°	164.0	164.0	162.3	158.8	157.1
82.5°	109.3	109.3	107.6	104.2	100.8
85°	61.5	61.5	59.8	54.7	52.9
87.5°	20.5	20.5	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)