

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: P297361

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297361
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-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5190.0 lumens
Efficiency: N/A
Efficacy: 144.2 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

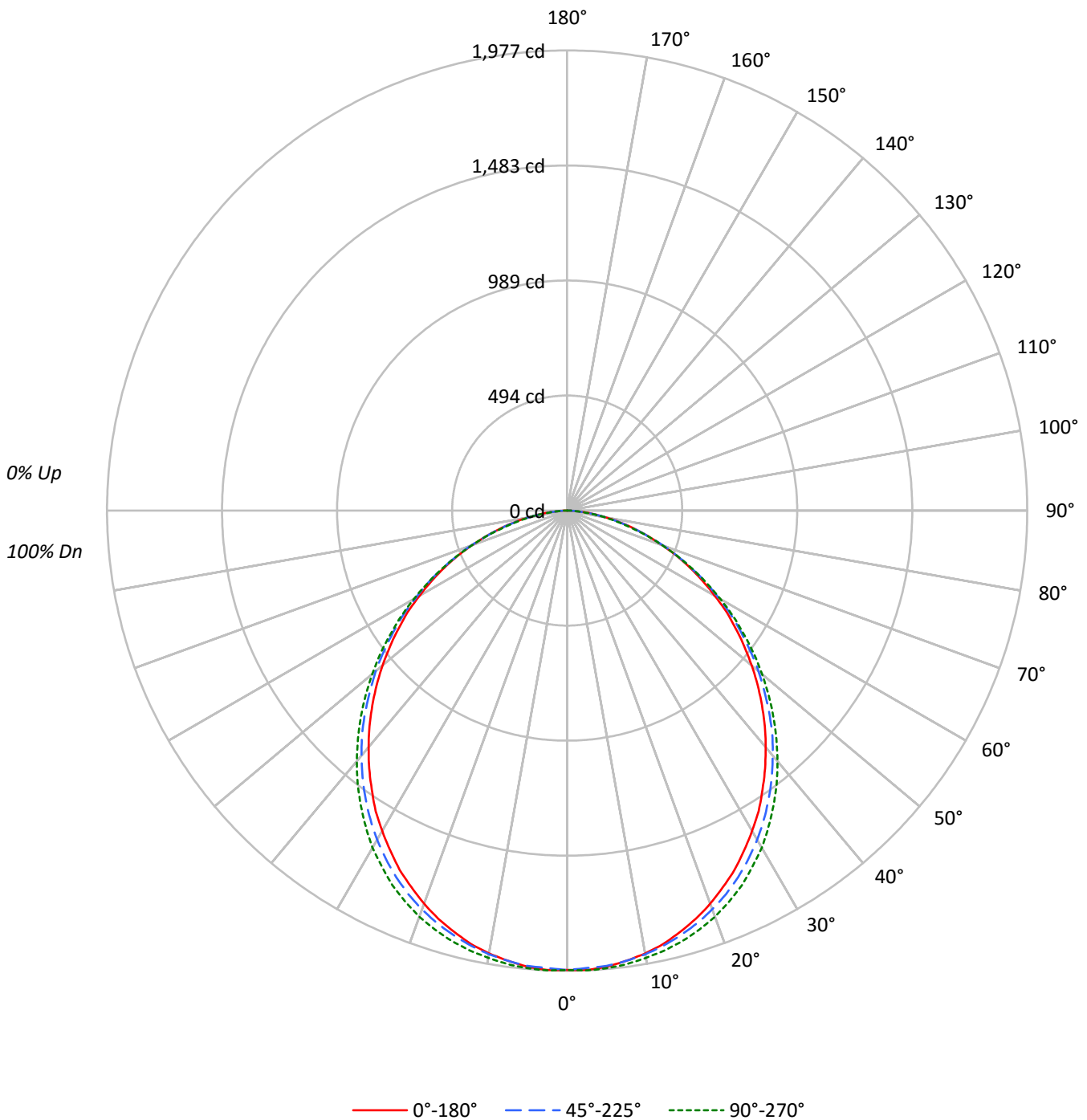
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2656	2656	2656
5°	2657	2652	2666
10°	2639	2644	2666
15°	2611	2630	2667
20°	2573	2611	2658
25°	2528	2580	2637
30°	2469	2537	2599
35°	2404	2481	2539
40°	2331	2414	2469
45°	2252	2335	2385
50°	2166	2247	2287
55°	2075	2141	2174
60°	1971	2023	2046
65°	1859	1887	1898
70°	1706	1726	1706
75°	1536	1527	1482
80°	1300	1287	1246
85°	971	945	837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	3.6
10°-20°	533.9	10.3
20°-30°	800.4	15.4
30°-40°	942.6	18.2
40°-50°	942.8	18.2
50°-60°	813.5	15.7
60°-70°	585.4	11.3
70°-80°	310.5	6.0
80°-90°	74.0	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°	1521.2	29.3
0°-40°	2463.8	47.5
0°-60°	4220.1	81.3
0°-90°	5190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1967	1965	1963	1970	1974	187
15°	1874	1879	1888	1907	1914	529
25°	1703	1713	1738	1768	1776	783
35°	1463	1481	1510	1537	1546	915
45°	1184	1199	1227	1248	1254	913
55°	885	893	913	928	927	792
65°	584	586	593	596	596	578
75°	296	292	294	287	285	314
85°	63	63	61	56	54	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.9	1973.9	1973.9	1973.9	1973.9
2.5°	1975.6	1972.1	1966.9	1973.9	1977.3
5°	1966.9	1965.1	1963.4	1970.4	1973.9
7.5°	1951.1	1952.9	1951.1	1961.6	1965.1
10°	1931.9	1933.6	1935.4	1947.6	1951.1
12.5°	1907.4	1909.2	1914.4	1930.1	1935.4
15°	1874.2	1879.4	1888.2	1907.4	1914.4
17.5°	1839.2	1846.2	1858.5	1881.2	1888.2
20°	1797.3	1806.0	1823.5	1848.0	1856.7
22.5°	1750.1	1758.8	1783.3	1809.5	1818.3
25°	1702.9	1713.4	1737.8	1767.6	1776.3
27.5°	1646.9	1660.9	1687.1	1716.8	1723.8
30°	1589.2	1601.5	1632.9	1660.9	1673.1
32.5°	1531.5	1543.8	1573.5	1601.5	1610.2
35°	1463.3	1480.8	1510.5	1536.8	1545.5
37.5°	1396.9	1412.6	1444.1	1470.3	1479.1
40°	1327.0	1341.0	1374.2	1398.7	1405.6
42.5°	1257.0	1271.0	1304.2	1323.5	1330.5
45°	1183.6	1199.3	1227.3	1248.3	1253.5
47.5°	1110.2	1122.4	1148.6	1167.9	1174.9
50°	1035.0	1047.2	1073.5	1089.2	1092.7
52.5°	959.8	968.6	993.0	1007.0	1012.3
55°	884.6	893.4	912.6	928.4	926.6
57.5°	813.0	816.5	835.7	846.2	846.2
60°	732.5	736.0	751.8	758.8	760.5
62.5°	657.4	662.6	674.9	676.6	676.6
65°	583.9	585.7	592.7	596.2	596.2
67.5°	510.5	508.8	515.8	515.8	514.0
70°	433.6	437.1	438.8	435.3	433.6
72.5°	363.7	361.9	361.9	360.2	360.2
75°	295.5	292.0	293.7	286.7	285.0
77.5°	232.5	227.3	225.5	222.0	218.5
80°	167.8	167.8	166.1	162.6	160.8
82.5°	111.9	111.9	110.1	106.6	103.2
85°	62.9	62.9	61.2	55.9	54.2
87.5°	21.0	21.0	21.0	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)