

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: P297356

Luminaire Tested: **D3X-WO-50L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297356
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4712.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

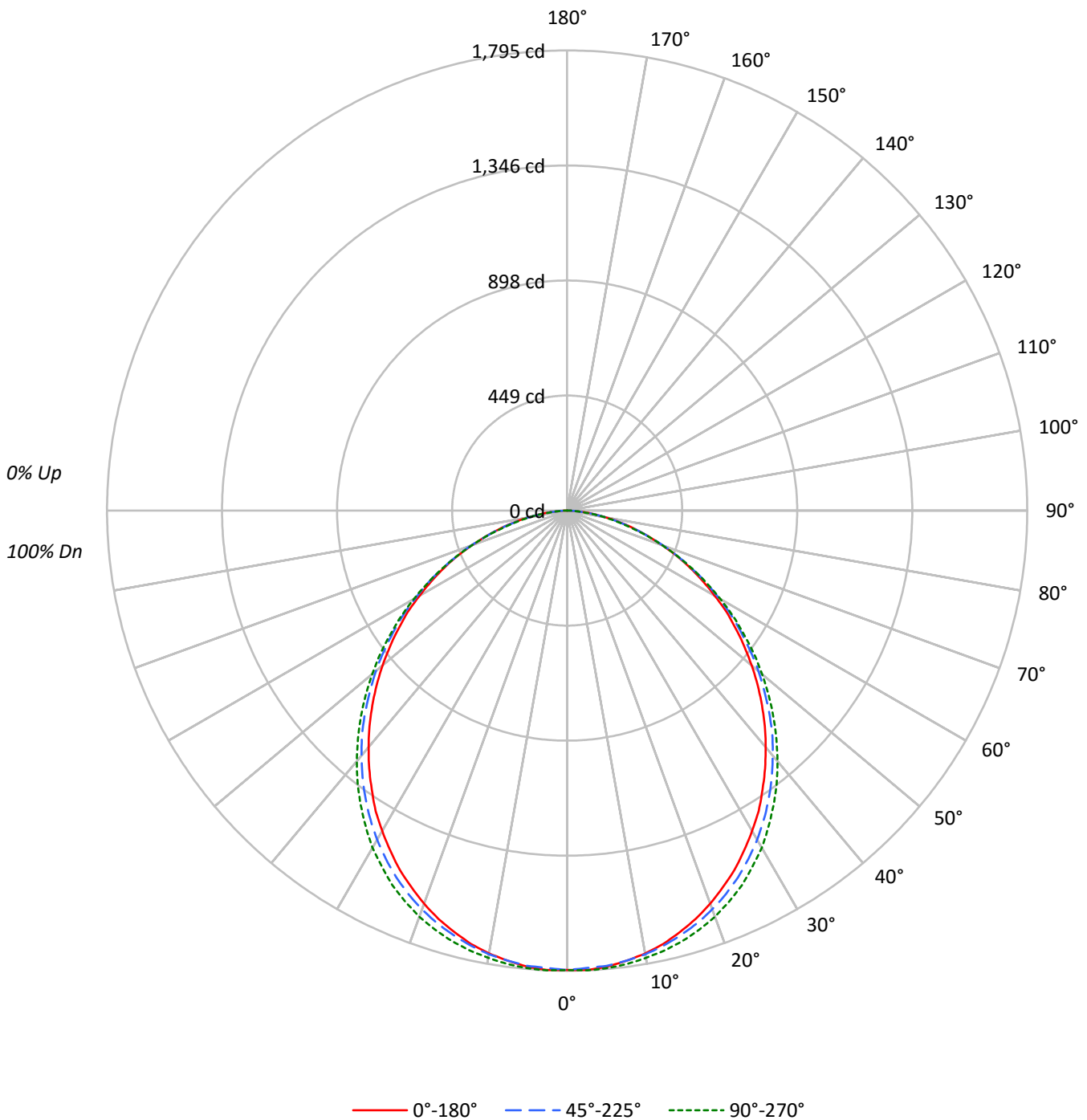
Input Watts (W): 34.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2411	2411	2411
5°	2412	2407	2420
10°	2396	2401	2420
15°	2370	2388	2421
20°	2336	2371	2414
25°	2295	2342	2394
30°	2242	2303	2360
35°	2182	2253	2305
40°	2116	2191	2242
45°	2045	2120	2166
50°	1967	2040	2077
55°	1884	1944	1974
60°	1790	1837	1858
65°	1688	1713	1723
70°	1549	1567	1549
75°	1395	1386	1345
80°	1181	1168	1131
85°	881	858	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	3.6
10°-20°	484.7	10.3
20°-30°	726.7	15.4
30°-40°	855.8	18.2
40°-50°	856.0	18.2
50°-60°	738.6	15.7
60°-70°	531.5	11.3
70°-80°	281.9	6.0
80°-90°	67.2	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°	1381.1	29.3
0°-40°	2236.9	47.5
0°-60°	3831.5	81.3
0°-90°	4712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1786	1784	1782	1789	1792	169
15°	1702	1706	1714	1732	1738	480
25°	1546	1556	1578	1605	1613	711
35°	1329	1344	1371	1395	1403	831
45°	1075	1089	1114	1133	1138	829
55°	803	811	829	843	841	719
65°	530	532	538	541	541	524
75°	268	265	267	260	259	285
85°	57	57	56	51	49	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.1	1792.1	1792.1	1792.1	1792.1
2.5°	1793.6	1790.5	1785.7	1792.1	1795.2
5°	1785.7	1784.1	1782.5	1788.9	1792.1
7.5°	1771.4	1773.0	1771.4	1780.9	1784.1
10°	1754.0	1755.6	1757.1	1768.3	1771.4
12.5°	1731.7	1733.3	1738.1	1752.4	1757.1
15°	1701.6	1706.3	1714.3	1731.7	1738.1
17.5°	1669.8	1676.2	1687.3	1707.9	1714.3
20°	1631.7	1639.7	1655.6	1677.8	1685.7
22.5°	1588.9	1596.8	1619.0	1642.9	1650.8
25°	1546.0	1555.6	1577.8	1604.8	1612.7
27.5°	1495.2	1507.9	1531.7	1558.7	1565.1
30°	1442.9	1454.0	1482.5	1507.9	1519.0
32.5°	1390.5	1401.6	1428.6	1454.0	1461.9
35°	1328.6	1344.4	1371.4	1395.2	1403.2
37.5°	1268.3	1282.5	1311.1	1334.9	1342.9
40°	1204.8	1217.5	1247.6	1269.8	1276.2
42.5°	1141.3	1154.0	1184.1	1201.6	1207.9
45°	1074.6	1088.9	1114.3	1133.3	1138.1
47.5°	1007.9	1019.0	1042.9	1060.3	1066.7
50°	939.7	950.8	974.6	988.9	992.1
52.5°	871.4	879.4	901.6	914.3	919.0
55°	803.2	811.1	828.6	842.9	841.3
57.5°	738.1	741.3	758.7	768.3	768.3
60°	665.1	668.3	682.5	688.9	690.5
62.5°	596.8	601.6	612.7	614.3	614.3
65°	530.2	531.7	538.1	541.3	541.3
67.5°	463.5	461.9	468.3	468.3	466.7
70°	393.7	396.8	398.4	395.2	393.7
72.5°	330.2	328.6	328.6	327.0	327.0
75°	268.3	265.1	266.7	260.3	258.7
77.5°	211.1	206.3	204.8	201.6	198.4
80°	152.4	152.4	150.8	147.6	146.0
82.5°	101.6	101.6	100.0	96.8	93.7
85°	57.1	57.1	55.6	50.8	49.2
87.5°	19.0	19.0	19.0	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)