

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: P297352

Luminaire Tested: **D3X-WO-45L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297352
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-45L82765-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: 4728.0 lumens
Efficiency: N/A
Efficacy: 145.5 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

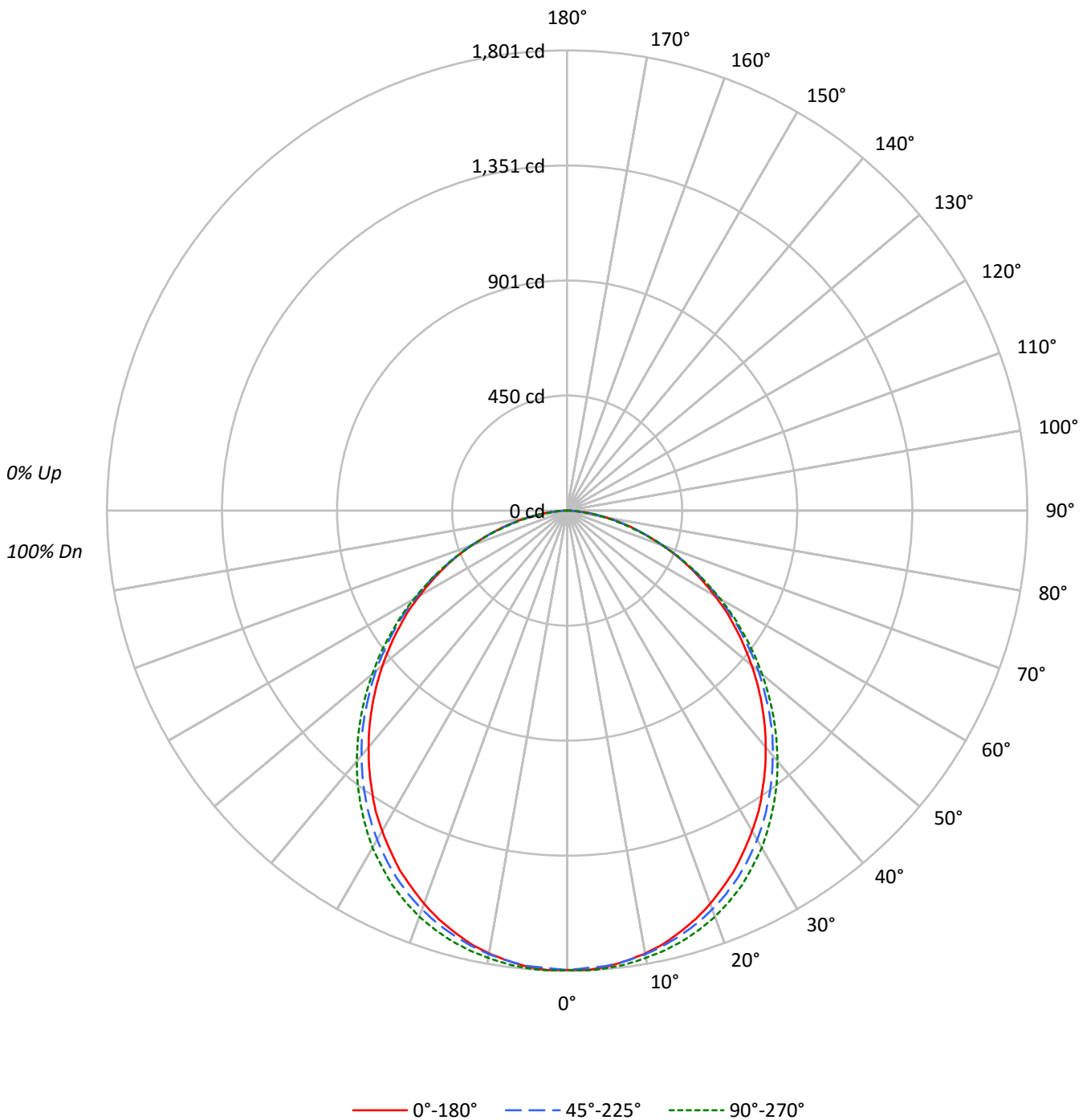
Input Watts (W): 32.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2419	2419	2419
5°	2420	2416	2429
10°	2404	2409	2428
15°	2378	2396	2429
20°	2344	2379	2422
25°	2303	2350	2402
30°	2249	2311	2368
35°	2190	2260	2313
40°	2123	2199	2249
45°	2052	2128	2173
50°	1974	2047	2084
55°	1890	1950	1980
60°	1796	1843	1864
65°	1694	1719	1729
70°	1554	1573	1554
75°	1399	1391	1350
80°	1185	1172	1135
85°	885	860	763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	3.6
10°-20°	486.3	10.3
20°-30°	729.2	15.4
30°-40°	858.7	18.2
40°-50°	858.9	18.2
50°-60°	741.1	15.7
60°-70°	533.3	11.3
70°-80°	282.9	6.0
80°-90°	67.4	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°	1385.8	29.3
0°-40°	2244.5	47.5
0°-60°	3844.5	81.3
0°-90°	4728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1792	1790	1789	1795	1798	170
15°	1707	1712	1720	1738	1744	481
25°	1551	1561	1583	1610	1618	714
35°	1333	1349	1376	1400	1408	834
45°	1078	1093	1118	1137	1142	832
55°	806	814	831	846	844	721
65°	532	534	540	543	543	526
75°	269	266	268	261	260	286
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°	1798.1	1798.1	1798.1	1798.1	1798.1
2.5°	1799.7	1796.6	1791.8	1798.1	1801.3
5°	1791.8	1790.2	1788.6	1795.0	1798.1
7.5°	1777.4	1779.0	1777.4	1787.0	1790.2
10°	1759.9	1761.5	1763.1	1774.3	1777.4
12.5°	1737.6	1739.2	1744.0	1758.3	1763.1
15°	1707.4	1712.1	1720.1	1737.6	1744.0
17.5°	1675.5	1681.9	1693.0	1713.7	1720.1
20°	1637.3	1645.2	1661.2	1683.5	1691.4
22.5°	1594.3	1602.2	1624.5	1648.4	1656.4
25°	1551.3	1560.8	1583.1	1610.2	1618.2
27.5°	1500.3	1513.1	1536.9	1564.0	1570.4
30°	1447.8	1458.9	1487.6	1513.1	1524.2
32.5°	1395.2	1406.3	1433.4	1458.9	1466.9
35°	1333.1	1349.0	1376.1	1400.0	1407.9
37.5°	1272.6	1286.9	1315.6	1339.5	1347.4
40°	1208.9	1221.6	1251.9	1274.2	1280.5
42.5°	1145.1	1157.9	1188.1	1205.7	1212.0
45°	1078.3	1092.6	1118.1	1137.2	1142.0
47.5°	1011.4	1022.5	1046.4	1063.9	1070.3
50°	942.9	954.0	977.9	992.2	995.4
52.5°	874.4	882.3	904.6	917.4	922.2
55°	805.9	813.9	831.4	845.7	844.1
57.5°	740.6	743.8	761.3	770.9	770.9
60°	667.3	670.5	684.9	691.2	692.8
62.5°	598.9	603.6	614.8	616.4	616.4
65°	532.0	533.6	539.9	543.1	543.1
67.5°	465.1	463.5	469.8	469.8	468.3
70°	395.0	398.2	399.8	396.6	395.0
72.5°	331.3	329.7	329.7	328.1	328.1
75°	269.2	266.0	267.6	261.2	259.6
77.5°	211.8	207.0	205.5	202.3	199.1
80°	152.9	152.9	151.3	148.1	146.5
82.5°	101.9	101.9	100.3	97.2	94.0
85°	57.3	57.3	55.7	51.0	49.4
87.5°	19.1	19.1	19.1	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)