

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: P297347

Luminaire Tested: **D3X-WO-45L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297347
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-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: 4293.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

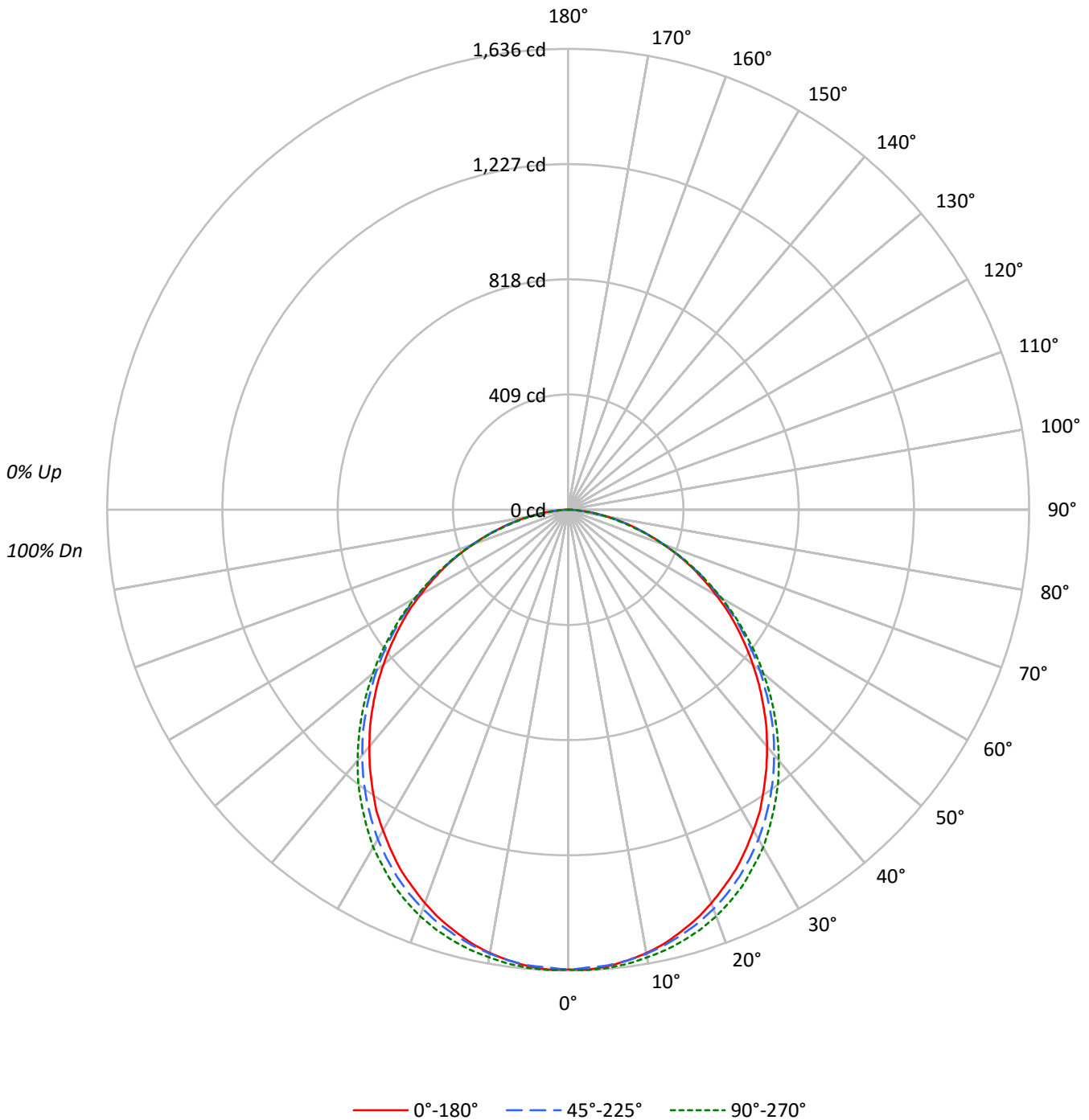
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2197	2197	2197
5°	2197	2193	2205
10°	2183	2187	2205
15°	2159	2176	2206
20°	2129	2160	2199
25°	2091	2134	2181
30°	2042	2098	2150
35°	1988	2052	2100
40°	1928	1997	2042
45°	1863	1932	1973
50°	1792	1859	1892
55°	1717	1771	1798
60°	1630	1673	1693
65°	1538	1561	1570
70°	1411	1428	1411
75°	1271	1263	1225
80°	1075	1065	1031
85°	804	781	692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.6
10°-20°	441.6	10.3
20°-30°	662.1	15.4
30°-40°	779.7	18.2
40°-50°	779.9	18.2
50°-60°	672.9	15.7
60°-70°	484.2	11.3
70°-80°	256.8	6.0
80°-90°	61.3	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°	1258.3	29.3
0°-40°	2038.0	47.5
0°-60°	3490.7	81.3
0°-90°	4293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1627	1626	1624	1630	1633	154
15°	1550	1555	1562	1578	1584	437
25°	1409	1417	1438	1462	1469	648
35°	1210	1225	1250	1271	1278	757
45°	979	992	1015	1033	1037	755
55°	732	739	755	768	766	655
65°	483	484	490	493	493	478
75°	244	242	243	237	236	260
85°	52	52	51	46	45	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1632.7	1632.7	1632.7	1632.7	1632.7
2.5°	1634.2	1631.3	1626.9	1632.7	1635.6
5°	1626.9	1625.5	1624.0	1629.8	1632.7
7.5°	1613.9	1615.4	1613.9	1622.6	1625.5
10°	1598.0	1599.4	1600.9	1611.0	1613.9
12.5°	1577.8	1579.2	1583.5	1596.6	1600.9
15°	1550.3	1554.6	1561.8	1577.8	1583.5
17.5°	1521.4	1527.1	1537.3	1556.1	1561.8
20°	1486.6	1493.9	1508.3	1528.6	1535.8
22.5°	1447.6	1454.8	1475.1	1496.8	1504.0
25°	1408.6	1417.2	1437.5	1462.1	1469.3
27.5°	1362.3	1373.8	1395.5	1420.1	1425.9
30°	1314.6	1324.7	1350.7	1373.8	1384.0
32.5°	1266.8	1277.0	1301.5	1324.7	1331.9
35°	1210.4	1224.9	1249.5	1271.2	1278.4
37.5°	1155.5	1168.5	1194.5	1216.2	1223.4
40°	1097.6	1109.2	1136.7	1156.9	1162.7
42.5°	1039.8	1051.4	1078.8	1094.7	1100.5
45°	979.0	992.1	1015.2	1032.6	1036.9
47.5°	918.3	928.4	950.1	966.0	971.8
50°	856.1	866.2	887.9	901.0	903.8
52.5°	793.9	801.2	821.4	833.0	837.3
55°	731.8	739.0	754.9	767.9	766.5
57.5°	672.5	675.4	691.3	699.9	699.9
60°	605.9	608.8	621.8	627.6	629.1
62.5°	543.8	548.1	558.2	559.7	559.7
65°	483.0	484.5	490.2	493.1	493.1
67.5°	422.3	420.8	426.6	426.6	425.2
70°	358.6	361.5	363.0	360.1	358.6
72.5°	300.8	299.4	299.4	297.9	297.9
75°	244.4	241.5	243.0	237.2	235.7
77.5°	192.3	188.0	186.6	183.7	180.8
80°	138.8	138.8	137.4	134.5	133.0
82.5°	92.6	92.6	91.1	88.2	85.3
85°	52.1	52.1	50.6	46.3	44.8
87.5°	17.4	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)