

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: P297281

Luminaire Tested: **D3X-WO-42L83050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297281
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-42L83050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425.0 lumens
Efficiency: N/A
Efficacy: 148.5 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

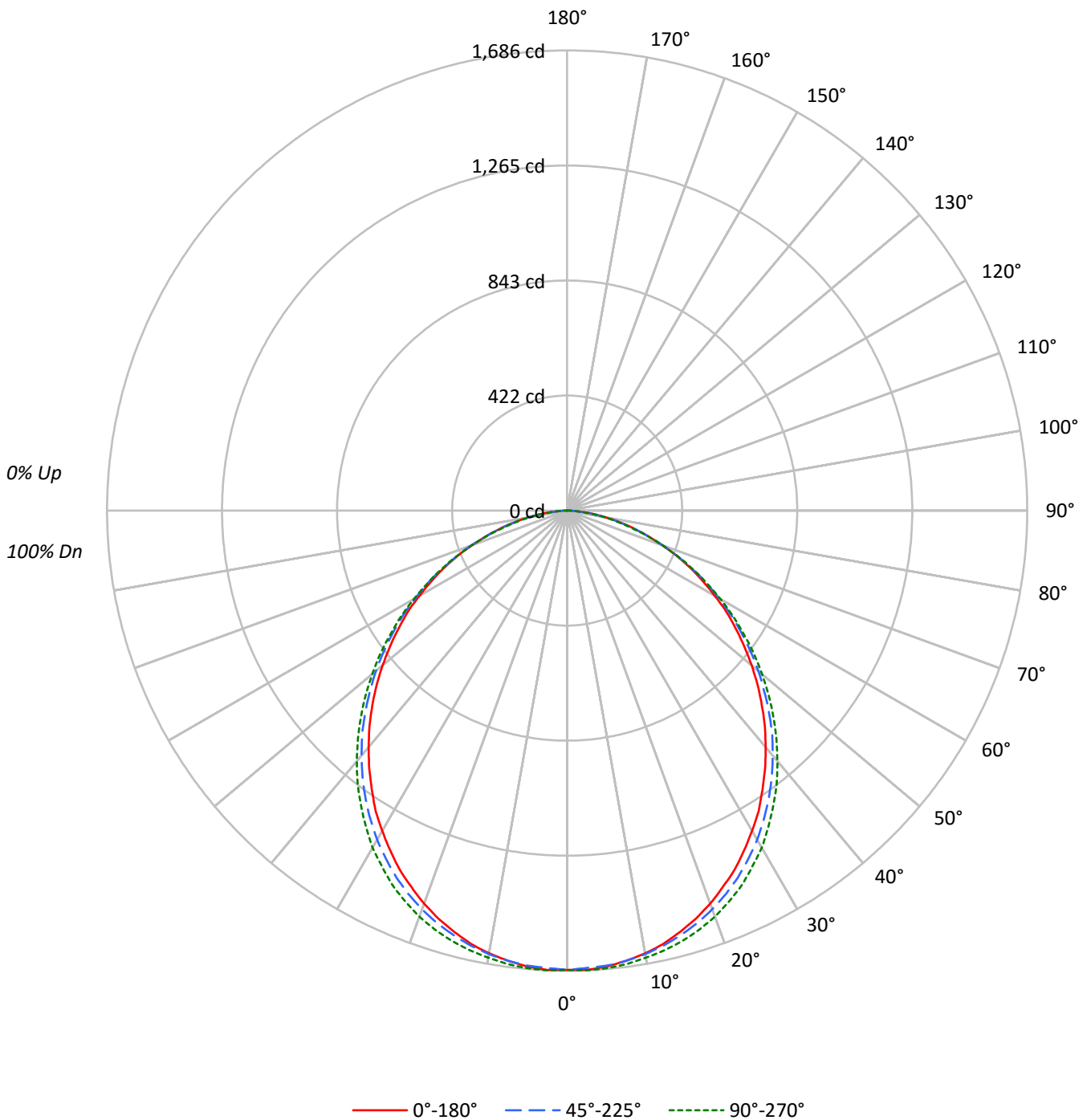
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2264	2264	2264
5°	2265	2261	2273
10°	2250	2254	2273
15°	2226	2243	2274
20°	2194	2226	2267
25°	2155	2200	2248
30°	2105	2163	2216
35°	2049	2115	2164
40°	1987	2058	2105
45°	1920	1991	2034
50°	1847	1916	1950
55°	1769	1825	1853
60°	1681	1725	1745
65°	1585	1609	1618
70°	1454	1472	1454
75°	1310	1302	1263
80°	1109	1097	1062
85°	829	806	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.6
10°-20°	455.2	10.3
20°-30°	682.5	15.4
30°-40°	803.7	18.2
40°-50°	803.8	18.2
50°-60°	693.6	15.7
60°-70°	499.1	11.3
70°-80°	264.7	6.0
80°-90°	63.1	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°	1297.0	29.3
0°-40°	2100.7	47.5
0°-60°	3598.1	81.3
0°-90°	4425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1677	1676	1674	1680	1683	159
15°	1598	1602	1610	1626	1632	451
25°	1452	1461	1482	1507	1514	668
35°	1248	1263	1288	1310	1318	781
45°	1009	1023	1046	1064	1069	778
55°	754	762	778	792	790	675
65°	498	499	505	508	508	492
75°	252	249	250	244	243	268
85°	54	54	52	48	46	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.9	1682.9	1682.9	1682.9	1682.9
2.5°	1684.4	1681.4	1676.9	1682.9	1685.9
5°	1676.9	1675.5	1674.0	1679.9	1682.9
7.5°	1663.5	1665.0	1663.5	1672.5	1675.5
10°	1647.1	1648.6	1650.1	1660.5	1663.5
12.5°	1626.3	1627.8	1632.2	1645.6	1650.1
15°	1597.9	1602.4	1609.9	1626.3	1632.2
17.5°	1568.1	1574.1	1584.5	1603.9	1609.9
20°	1532.4	1539.8	1554.7	1575.6	1583.0
22.5°	1492.1	1499.6	1520.4	1542.8	1550.2
25°	1451.9	1460.8	1481.7	1507.0	1514.5
27.5°	1404.2	1416.1	1438.4	1463.8	1469.8
30°	1355.0	1365.4	1392.2	1416.1	1426.5
32.5°	1305.8	1316.2	1341.6	1365.4	1372.9
35°	1247.6	1262.6	1287.9	1310.3	1317.7
37.5°	1191.0	1204.4	1231.3	1253.6	1261.1
40°	1131.4	1143.3	1171.6	1192.5	1198.5
42.5°	1071.8	1083.7	1112.0	1128.4	1134.4
45°	1009.1	1022.6	1046.4	1064.3	1068.8
47.5°	946.5	957.0	979.3	995.7	1001.7
50°	882.4	892.9	915.2	928.7	931.6
52.5°	818.4	825.8	846.7	858.6	863.1
55°	754.3	761.7	778.1	791.5	790.0
57.5°	693.1	696.1	712.5	721.5	721.5
60°	624.6	627.6	641.0	646.9	648.4
62.5°	560.5	564.9	575.4	576.9	576.9
65°	497.9	499.4	505.3	508.3	508.3
67.5°	435.3	433.8	439.7	439.7	438.2
70°	369.7	372.7	374.1	371.2	369.7
72.5°	310.0	308.6	308.6	307.1	307.1
75°	251.9	248.9	250.4	244.5	243.0
77.5°	198.3	193.8	192.3	189.3	186.3
80°	143.1	143.1	141.6	138.6	137.1
82.5°	95.4	95.4	93.9	90.9	87.9
85°	53.7	53.7	52.2	47.7	46.2
87.5°	17.9	17.9	17.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)