

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: P297071

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-45L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4403.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

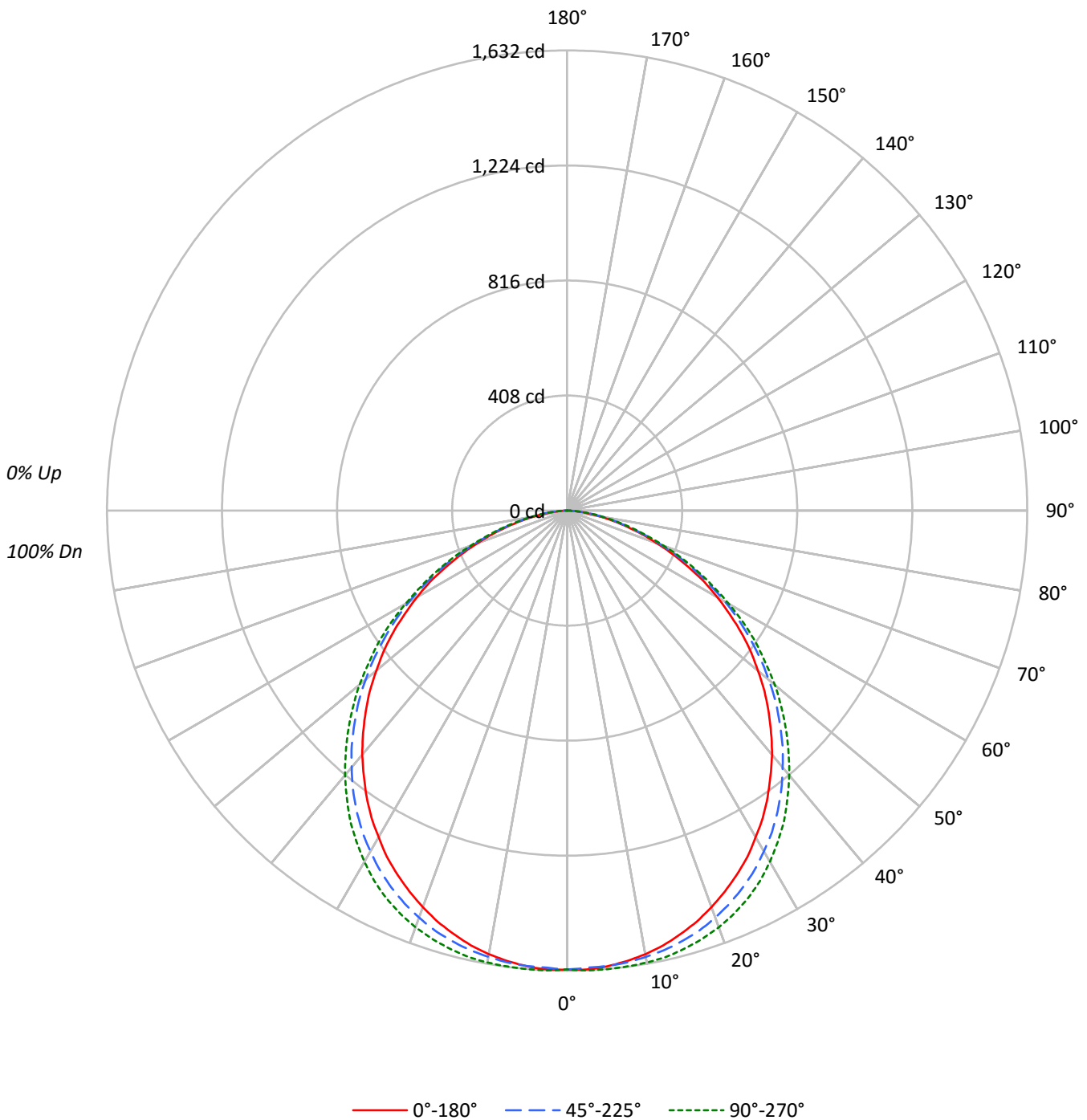
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		47	42	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	27		38	32	27		37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2190	2190	2190
5°	2192	2190	2205
10°	2183	2196	2224
15°	2166	2201	2241
20°	2143	2200	2252
25°	2114	2189	2253
30°	2078	2169	2235
35°	2036	2137	2205
40°	1986	2089	2152
45°	1924	2029	2089
50°	1849	1954	2014
55°	1768	1857	1917
60°	1655	1740	1783
65°	1511	1592	1632
70°	1328	1396	1433
75°	1123	1181	1222
80°	892	978	1002
85°	608	730	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.5
10°-20°	446.5	10.1
20°-30°	678.6	15.4
30°-40°	809.7	18.4
40°-50°	817.7	18.6
50°-60°	704.6	16.0
60°-70°	491.2	11.2
70°-80°	243.4	5.5
80°-90°	56.7	1.3
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°	1279.7	29.1
0°-40°	2089.4	47.5
0°-60°	3611.7	82.0
0°-90°	4403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1628	1628	1628	1628	1628	
5°	1623	1621	1621	1629	1632	154
15°	1555	1563	1580	1601	1609	439
25°	1424	1443	1475	1505	1517	656
35°	1240	1260	1301	1331	1342	775
45°	1011	1033	1066	1091	1098	779
55°	754	770	792	811	817	672
65°	475	484	500	505	513	471
75°	216	219	227	232	235	233
85°	39	47	47	44	46	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627.7	1627.7	1627.7	1627.7	1627.7
2.5°	1629.3	1626.1	1623.0	1629.3	1632.4
5°	1623.0	1621.4	1621.4	1629.3	1632.4
7.5°	1611.9	1611.9	1616.7	1627.7	1630.9
10°	1597.7	1600.9	1607.2	1623.0	1627.7
12.5°	1578.8	1585.1	1596.2	1615.1	1621.4
15°	1555.1	1563.0	1580.4	1600.9	1608.8
17.5°	1528.3	1539.4	1561.5	1585.1	1593.0
20°	1496.8	1511.0	1536.2	1563.0	1572.5
22.5°	1462.1	1479.4	1507.8	1536.2	1547.3
25°	1424.2	1443.2	1474.7	1504.7	1517.3
27.5°	1384.8	1403.7	1438.4	1468.4	1481.0
30°	1337.5	1359.6	1395.8	1427.4	1438.4
32.5°	1291.7	1313.8	1351.7	1380.1	1391.1
35°	1239.7	1260.2	1301.2	1331.2	1342.2
37.5°	1184.5	1208.2	1247.6	1274.4	1283.9
40°	1130.9	1151.4	1189.2	1216.0	1225.5
42.5°	1070.9	1093.0	1130.9	1154.5	1162.4
45°	1011.0	1033.1	1066.2	1091.4	1097.7
47.5°	949.5	970.0	1003.1	1023.6	1029.9
50°	883.2	902.2	933.7	954.2	962.1
52.5°	820.2	837.5	864.3	881.7	886.4
55°	753.9	769.7	791.8	810.7	817.0
57.5°	682.9	700.3	720.8	736.6	741.3
60°	615.1	629.3	646.7	660.9	662.4
62.5°	548.9	555.2	571.0	583.6	585.2
65°	474.7	484.2	500.0	504.7	512.6
67.5°	406.9	413.2	425.9	432.2	438.5
70°	337.5	342.3	354.9	362.8	364.3
72.5°	277.6	279.2	288.6	294.9	296.5
75°	216.1	219.2	227.1	231.9	235.0
77.5°	164.0	167.2	173.5	176.6	176.6
80°	115.1	119.9	126.2	127.8	129.3
82.5°	74.1	80.4	85.2	86.7	83.6
85°	39.4	47.3	47.3	44.2	45.7
87.5°	14.2	17.3	18.9	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)