

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: P297074

Luminaire Tested: **D3X-WG-45L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297074
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-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4469.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

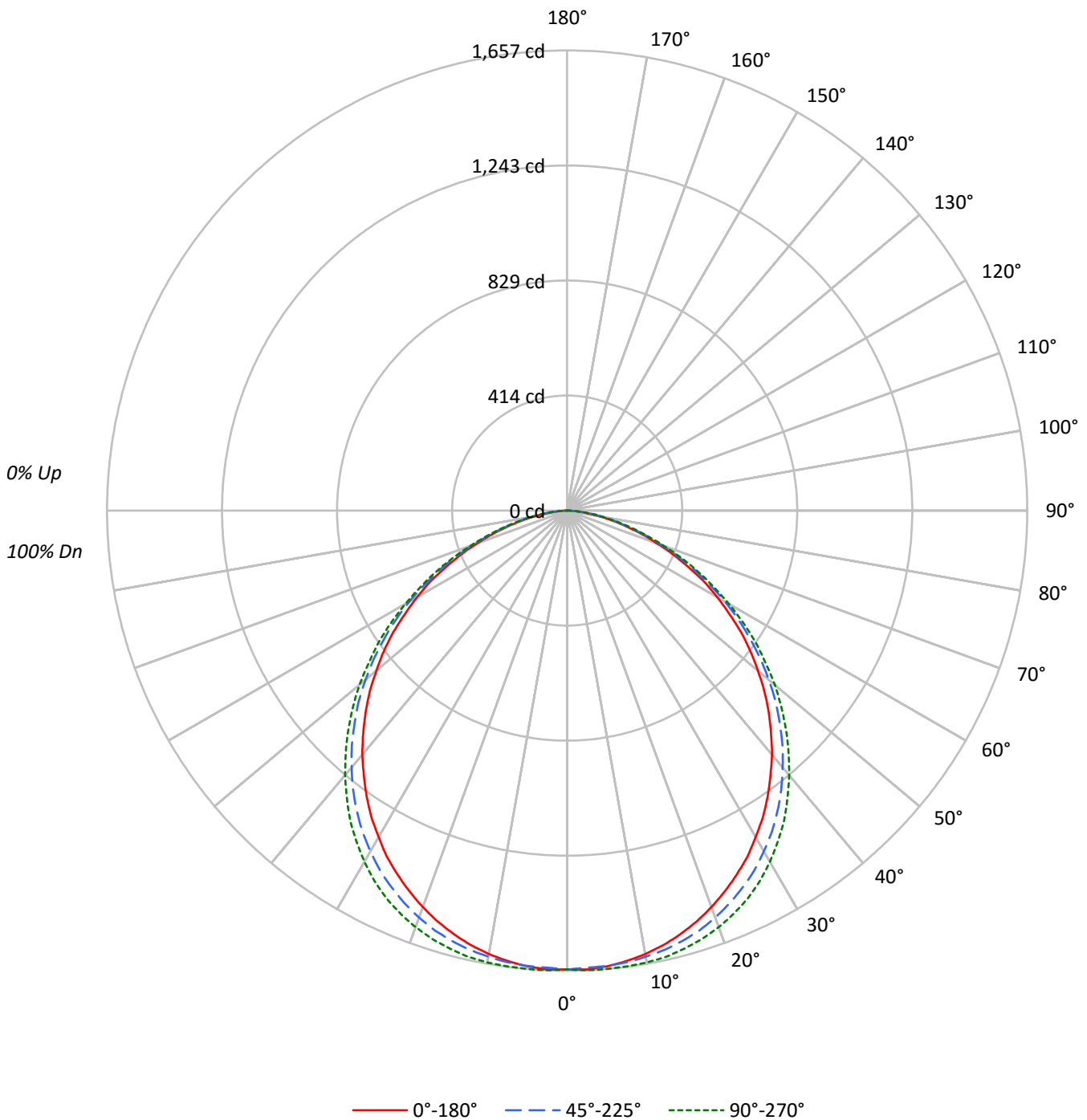
Input Watts (W): 32.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2223	2223	2223
5°	2225	2223	2238
10°	2216	2229	2257
15°	2199	2234	2275
20°	2175	2233	2285
25°	2146	2222	2286
30°	2109	2201	2268
35°	2067	2169	2238
40°	2016	2120	2185
45°	1953	2059	2120
50°	1877	1984	2044
55°	1795	1885	1945
60°	1680	1766	1809
65°	1534	1616	1656
70°	1348	1417	1455
75°	1140	1198	1240
80°	906	993	1017
85°	618	741	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.0	3.5
10°-20°	453.2	10.1
20°-30°	688.7	15.4
30°-40°	821.8	18.4
40°-50°	830.0	18.6
50°-60°	715.1	16.0
60°-70°	498.5	11.2
70°-80°	247.1	5.5
80°-90°	57.6	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°	1298.9	29.1
0°-40°	2120.7	47.5
0°-60°	3665.8	82.0
0°-90°	4469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1647	1646	1646	1654	1657	156
15°	1578	1586	1604	1625	1633	445
25°	1446	1465	1497	1527	1540	666
35°	1258	1279	1321	1351	1362	786
45°	1026	1049	1082	1108	1114	791
55°	765	781	804	823	829	682
65°	482	492	508	512	520	478
75°	219	222	230	235	238	236
85°	40	48	48	45	46	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.1	1652.1	1652.1	1652.1	1652.1
2.5°	1653.7	1650.5	1647.3	1653.7	1656.9
5°	1647.3	1645.7	1645.7	1653.7	1656.9
7.5°	1636.1	1636.1	1640.9	1652.1	1655.3
10°	1621.7	1624.9	1631.3	1647.3	1652.1
12.5°	1602.5	1608.9	1620.1	1639.3	1645.7
15°	1578.5	1586.5	1604.1	1624.9	1632.9
17.5°	1551.2	1562.4	1584.9	1608.9	1616.9
20°	1519.2	1533.6	1559.2	1586.5	1596.1
22.5°	1484.0	1501.6	1530.4	1559.2	1570.5
25°	1445.6	1464.8	1496.8	1527.2	1540.0
27.5°	1405.6	1424.8	1460.0	1490.4	1503.2
30°	1357.5	1379.9	1416.8	1448.8	1460.0
32.5°	1311.1	1333.5	1371.9	1400.8	1412.0
35°	1258.3	1279.1	1320.7	1351.1	1362.3
37.5°	1202.3	1226.3	1266.3	1293.5	1303.1
40°	1147.8	1168.6	1207.1	1234.3	1243.9
42.5°	1087.0	1109.4	1147.8	1171.8	1179.8
45°	1026.2	1048.6	1082.2	1107.8	1114.2
47.5°	963.7	984.5	1018.2	1039.0	1045.4
50°	896.5	915.7	947.7	968.5	976.5
52.5°	832.5	850.1	877.3	894.9	899.7
55°	765.2	781.2	803.6	822.8	829.2
57.5°	693.2	710.8	731.6	747.6	752.4
60°	624.3	638.7	656.4	670.8	672.4
62.5°	557.1	563.5	579.5	592.3	593.9
65°	481.9	491.5	507.5	512.3	520.3
67.5°	413.0	419.4	432.2	438.6	445.0
70°	342.6	347.4	360.2	368.2	369.8
72.5°	281.8	283.4	293.0	299.4	301.0
75°	219.3	222.5	230.5	235.3	238.5
77.5°	166.5	169.7	176.1	179.3	179.3
80°	116.9	121.7	128.1	129.7	131.3
82.5°	75.2	81.6	86.4	88.0	84.8
85°	40.0	48.0	48.0	44.8	46.4
87.5°	14.4	17.6	19.2	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)