

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: P298218

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-44L82765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4278.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

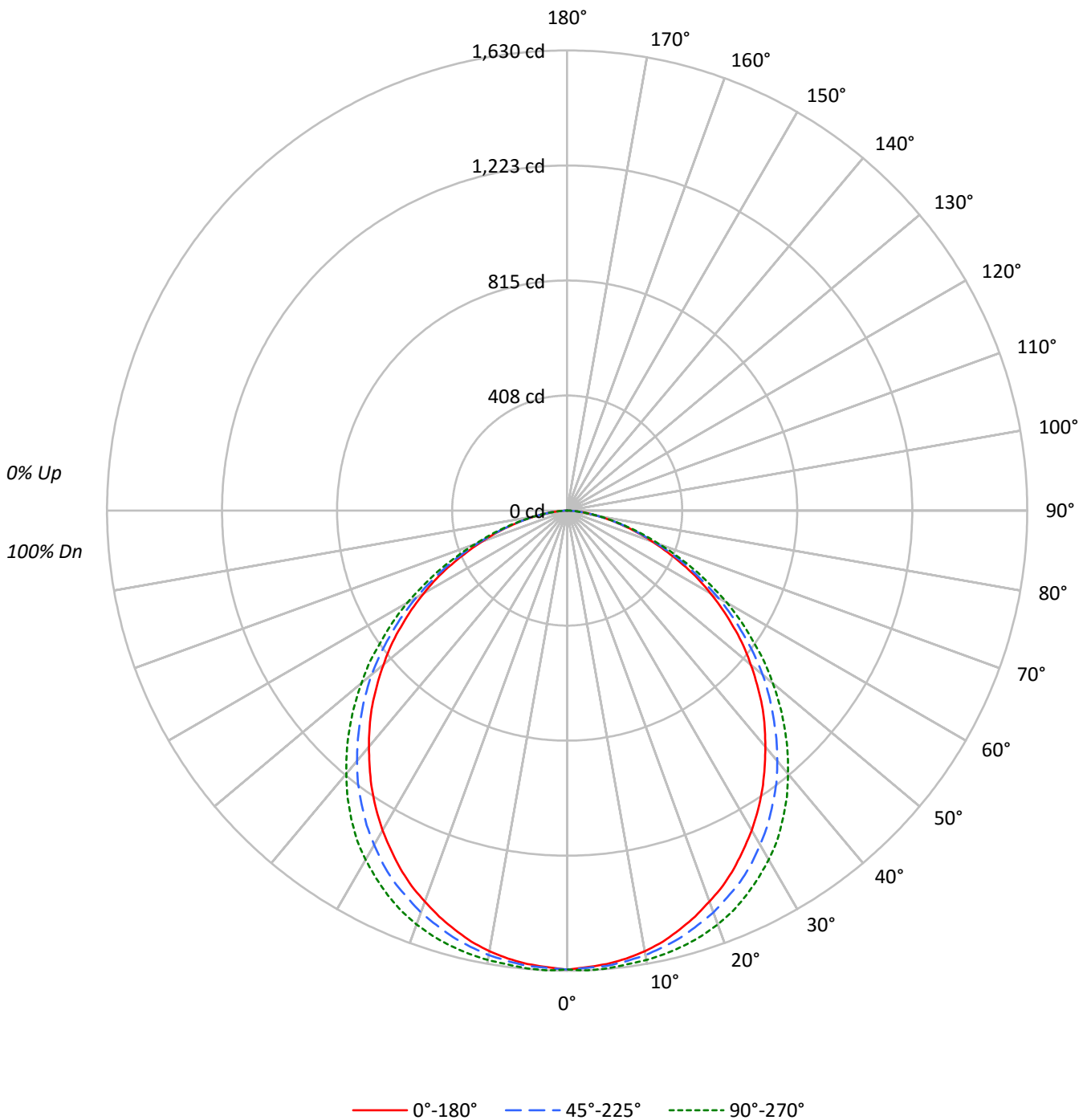
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4375	4375	4375
5°	4355	4373	4398
10°	4331	4368	4418
15°	4282	4358	4447
20°	4220	4337	4467
25°	4153	4308	4463
30°	4064	4247	4438
35°	3961	4170	4378
40°	3837	4068	4275
45°	3716	3932	4148
50°	3555	3783	3983
55°	3377	3568	3760
60°	3153	3324	3519
65°	2877	3007	3181
70°	2519	2626	2733
75°	2148	2196	2289
80°	1725	1759	1795
85°	1263	1192	1121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	3.6
10°-20°	441.7	10.3
20°-30°	667.7	15.6
30°-40°	793.1	18.5
40°-50°	796.2	18.6
50°-60°	680.1	15.9
60°-70°	468.6	11.0
70°-80°	227.2	5.3
80°-90°	49.7	1.2
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°	1263.2	29.5
0°-40°	2056.3	48.1
0°-60°	3532.6	82.6
0°-90°	4278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1626	1626	1626	1626	1626	
5°	1612	1612	1619	1624	1628	153
15°	1537	1544	1564	1585	1596	433
25°	1399	1410	1451	1490	1503	644
35°	1206	1224	1269	1317	1333	753
45°	976	990	1033	1076	1090	752
55°	720	731	761	792	802	643
65°	452	452	472	493	500	448
75°	207	202	211	216	220	222
85°	41	41	39	36	36	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625.7	1625.7	1625.7	1625.7	1625.7
2.5°	1618.9	1618.9	1621.2	1628.0	1630.3
5°	1612.1	1612.1	1618.9	1623.5	1628.0
7.5°	1600.8	1603.0	1609.8	1618.9	1621.2
10°	1584.9	1587.1	1598.5	1609.8	1616.7
12.5°	1564.4	1569.0	1582.6	1600.8	1607.6
15°	1537.2	1544.0	1564.4	1584.9	1596.2
17.5°	1507.7	1516.8	1539.5	1569.0	1580.3
20°	1473.6	1485.0	1514.5	1546.3	1559.9
22.5°	1439.6	1448.6	1482.7	1519.0	1534.9
25°	1398.7	1410.0	1450.9	1489.5	1503.1
27.5°	1353.3	1369.2	1412.3	1453.2	1466.8
30°	1307.9	1321.5	1366.9	1412.3	1428.2
32.5°	1257.9	1271.5	1321.5	1366.9	1385.1
35°	1205.7	1223.8	1269.3	1316.9	1332.8
37.5°	1148.9	1169.4	1217.0	1257.9	1278.3
40°	1092.2	1110.3	1158.0	1201.1	1217.0
42.5°	1035.4	1051.3	1096.7	1142.1	1155.7
45°	976.4	990.0	1033.1	1076.3	1089.9
47.5°	912.8	928.7	969.5	1005.9	1021.8
50°	849.2	865.1	903.7	937.8	951.4
52.5°	787.9	797.0	833.3	865.1	881.0
55°	719.8	731.1	760.6	792.4	801.5
57.5°	653.9	660.7	690.3	717.5	731.1
60°	585.8	590.4	617.6	638.0	653.9
62.5°	522.2	522.2	542.7	565.4	574.5
65°	451.8	451.8	472.3	492.7	499.5
67.5°	383.7	388.3	401.9	417.8	422.3
70°	320.2	320.2	333.8	345.1	347.4
72.5°	263.4	261.1	267.9	277.0	281.6
75°	206.6	202.1	211.2	215.7	220.2
77.5°	156.7	154.4	158.9	163.5	163.5
80°	111.3	109.0	113.5	113.5	115.8
82.5°	72.7	74.9	74.9	72.7	70.4
85°	40.9	40.9	38.6	36.3	36.3
87.5°	13.6	13.6	13.6	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)