

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: P298377

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

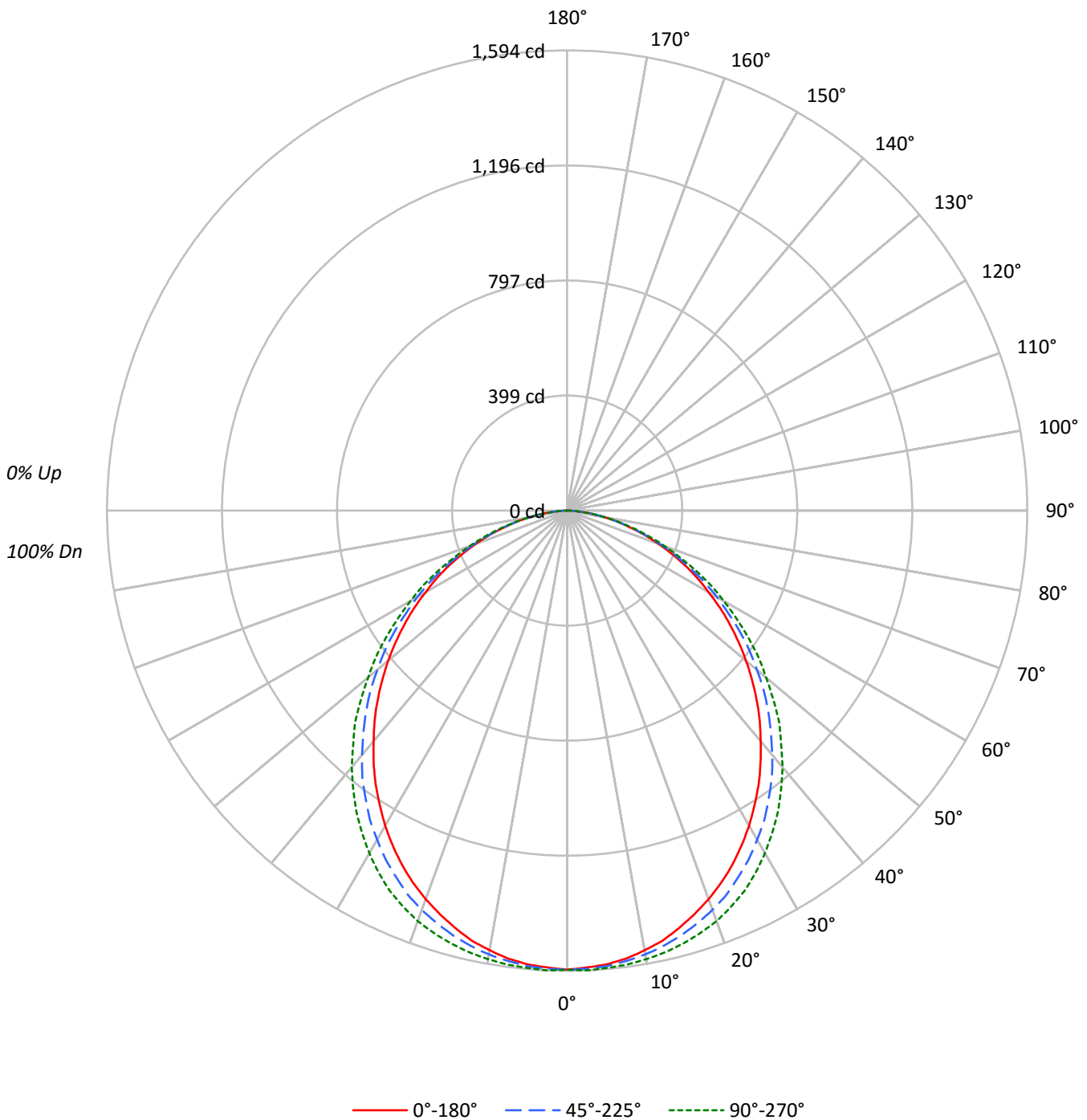
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	48	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4279	4279	4279
5°	4262	4279	4296
10°	4226	4266	4311
15°	4170	4245	4326
20°	4103	4215	4334
25°	4020	4161	4315
30°	3917	4091	4258
35°	3801	3998	4182
40°	3664	3882	4078
45°	3535	3748	3953
50°	3385	3593	3767
55°	3229	3424	3589
60°	3046	3225	3370
65°	2878	2984	3129
70°	2643	2724	2822
75°	2350	2414	2479
80°	2024	1991	1991
85°	1538	1408	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	3.6
10°-20°	430.0	10.3
20°-30°	645.6	15.5
30°-40°	759.8	18.2
40°-50°	757.8	18.2
50°-60°	650.3	15.6
60°-70°	465.8	11.2
70°-80°	246.7	5.9
80°-90°	57.7	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°	1226.0	29.4
0°-40°	1985.7	47.7
0°-60°	3393.9	81.5
0°-90°	4164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1578	1578	1584	1588	1590	150
15°	1497	1503	1524	1545	1553	422
25°	1354	1366	1402	1437	1453	623
35°	1157	1171	1217	1258	1273	723
45°	929	943	985	1020	1039	716
55°	688	699	730	755	765	615
65°	452	454	469	487	491	446
75°	226	226	232	236	238	242
85°	50	48	46	42	42	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590.2	1590.2	1590.2	1590.2	1590.2
2.5°	1584.0	1584.0	1588.1	1592.3	1594.3
5°	1577.8	1577.8	1584.0	1588.1	1590.2
7.5°	1565.3	1565.3	1573.6	1581.9	1586.0
10°	1546.7	1550.8	1561.2	1573.6	1577.8
12.5°	1525.9	1530.1	1544.6	1561.2	1567.4
15°	1496.9	1503.1	1523.8	1544.6	1552.9
17.5°	1465.8	1474.1	1499.0	1523.8	1534.2
20°	1432.6	1440.9	1472.0	1501.0	1513.5
22.5°	1395.3	1405.7	1440.9	1472.0	1484.5
25°	1353.8	1366.3	1401.5	1436.8	1453.4
27.5°	1308.2	1322.7	1362.1	1399.5	1414.0
30°	1260.5	1277.1	1316.5	1355.9	1370.4
32.5°	1208.7	1223.2	1270.9	1308.2	1322.7
35°	1156.9	1171.4	1217.0	1258.5	1273.0
37.5°	1100.9	1119.6	1165.2	1202.5	1217.0
40°	1042.9	1061.5	1105.1	1148.6	1161.0
42.5°	986.9	1003.5	1044.9	1084.3	1096.8
45°	928.8	943.3	984.8	1020.0	1038.7
47.5°	868.7	883.2	924.7	957.8	968.2
50°	808.6	823.1	858.3	887.4	899.8
52.5°	748.4	763.0	796.1	823.1	835.5
55°	688.3	698.7	729.8	754.7	765.0
57.5°	628.2	636.5	661.4	688.3	694.5
60°	566.0	576.4	599.2	617.8	626.1
62.5°	510.0	514.2	534.9	551.5	561.9
65°	452.0	454.0	468.6	487.2	491.4
67.5°	391.8	393.9	408.4	418.8	422.9
70°	335.9	335.9	346.2	354.5	358.7
72.5°	282.0	279.9	286.1	294.4	298.6
75°	226.0	226.0	232.2	236.4	238.4
77.5°	178.3	174.2	178.3	182.4	182.4
80°	130.6	128.5	128.5	130.6	128.5
82.5°	89.2	87.1	89.2	85.0	82.9
85°	49.8	47.7	45.6	41.5	41.5
87.5°	16.6	14.5	14.5	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)