

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: P298302

Luminaire Tested: **D3X-WG-44L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298302
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-44L92765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.0 lumens
Efficiency: N/A
Efficacy: 105.5 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

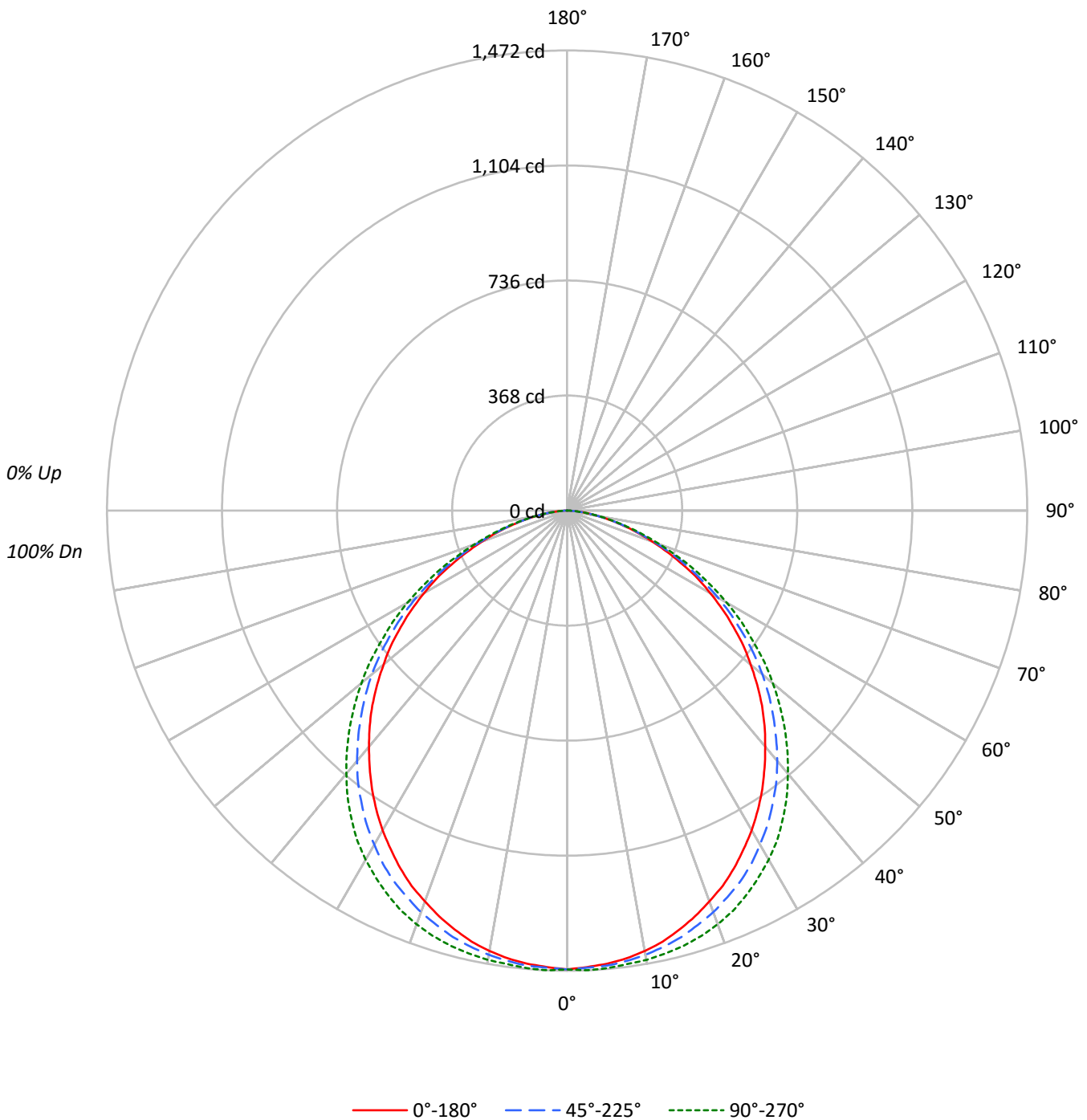
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3949	3949	3949
5°	3931	3948	3970
10°	3910	3943	3988
15°	3866	3935	4014
20°	3810	3915	4033
25°	3749	3889	4029
30°	3669	3834	4006
35°	3575	3764	3953
40°	3463	3672	3860
45°	3354	3550	3744
50°	3209	3415	3596
55°	3049	3222	3395
60°	2846	3000	3177
65°	2597	2715	2872
70°	2274	2371	2467
75°	1939	1982	2067
80°	1556	1588	1619
85°	1139	1074	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.6
10°-20°	398.7	10.3
20°-30°	602.8	15.6
30°-40°	715.9	18.5
40°-50°	718.8	18.6
50°-60°	613.9	15.9
60°-70°	423.0	11.0
70°-80°	205.1	5.3
80°-90°	44.9	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°	1140.4	29.5
0°-40°	1856.3	48.1
0°-60°	3189.1	82.6
0°-90°	3862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1455	1455	1462	1466	1470	138
15°	1388	1394	1412	1431	1441	391
25°	1263	1273	1310	1345	1357	581
35°	1088	1105	1146	1189	1203	680
45°	881	894	933	972	984	678
55°	650	660	687	715	724	581
65°	408	408	426	445	451	404
75°	186	182	191	195	199	200
85°	37	37	35	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467.6	1467.6	1467.6	1467.6	1467.6
2.5°	1461.5	1461.5	1463.5	1469.7	1471.7
5°	1455.3	1455.3	1461.5	1465.6	1469.7
7.5°	1445.1	1447.2	1453.3	1461.5	1463.5
10°	1430.8	1432.8	1443.1	1453.3	1459.4
12.5°	1412.3	1416.4	1428.7	1445.1	1451.3
15°	1387.7	1393.9	1412.3	1430.8	1441.0
17.5°	1361.1	1369.3	1389.8	1416.4	1426.7
20°	1330.3	1340.6	1367.2	1395.9	1408.2
22.5°	1299.6	1307.8	1338.5	1371.3	1385.7
25°	1262.7	1272.9	1309.8	1344.7	1357.0
27.5°	1221.7	1236.0	1275.0	1311.9	1324.2
30°	1180.7	1193.0	1234.0	1275.0	1289.3
32.5°	1135.6	1147.9	1193.0	1234.0	1250.4
35°	1088.4	1104.8	1145.8	1188.9	1203.2
37.5°	1037.2	1055.6	1098.7	1135.6	1154.0
40°	985.9	1002.3	1045.4	1084.3	1098.7
42.5°	934.7	949.1	990.0	1031.0	1043.3
45°	881.4	893.7	932.7	971.6	983.9
47.5°	824.0	838.4	875.3	908.1	922.4
50°	766.6	781.0	815.8	846.6	858.9
52.5°	711.3	719.5	752.3	781.0	795.3
55°	649.8	660.0	686.7	715.4	723.6
57.5°	590.3	596.5	623.1	647.7	660.0
60°	528.8	532.9	557.5	576.0	590.3
62.5°	471.5	471.5	489.9	510.4	518.6
65°	407.9	407.9	426.4	444.8	451.0
67.5°	346.4	350.5	362.8	377.2	381.3
70°	289.0	289.0	301.3	311.6	313.6
72.5°	237.8	235.7	241.9	250.1	254.2
75°	186.5	182.4	190.6	194.7	198.8
77.5°	141.4	139.4	143.5	147.6	147.6
80°	100.4	98.4	102.5	102.5	104.5
82.5°	65.6	67.6	67.6	65.6	63.5
85°	36.9	36.9	34.8	32.8	32.8
87.5°	12.3	12.3	12.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)