

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: P298216

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298216
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-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4179.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

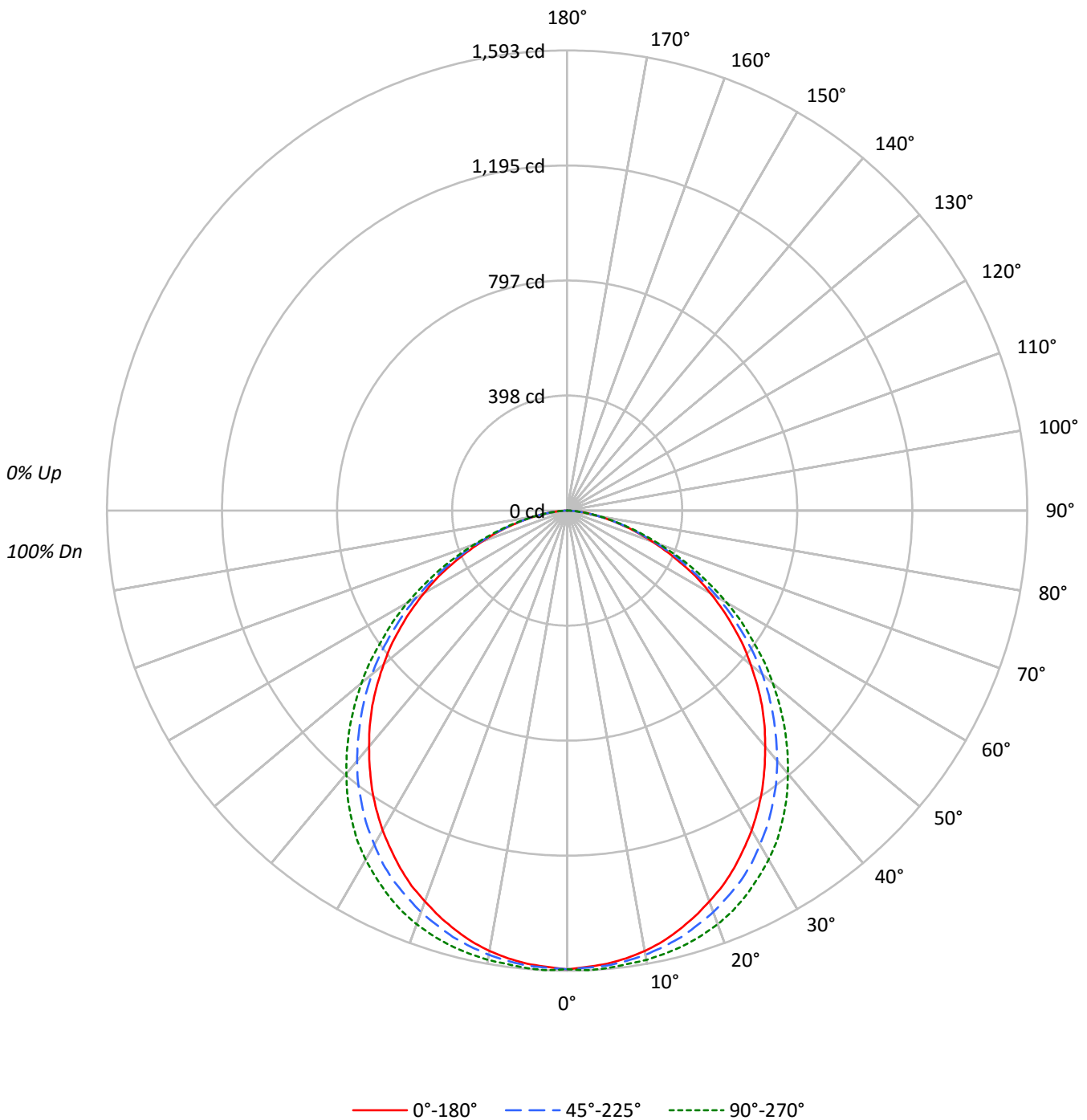
Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4274	4274	4274
5°	4254	4272	4296
10°	4230	4267	4315
15°	4183	4257	4344
20°	4122	4237	4364
25°	4057	4208	4360
30°	3970	4149	4335
35°	3869	4073	4277
40°	3748	3974	4176
45°	3630	3841	4052
50°	3473	3696	3891
55°	3299	3486	3674
60°	3080	3247	3438
65°	2811	2938	3107
70°	2460	2566	2670
75°	2098	2145	2236
80°	1684	1719	1753
85°	1232	1164	1096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.6
10°-20°	431.4	10.3
20°-30°	652.2	15.6
30°-40°	774.7	18.5
40°-50°	777.8	18.6
50°-60°	664.3	15.9
60°-70°	457.7	11.0
70°-80°	221.9	5.3
80°-90°	48.6	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°	1234.0	29.5
0°-40°	2008.7	48.1
0°-60°	3450.8	82.6
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1575	1575	1582	1586	1590	149
15°	1502	1508	1528	1548	1559	423
25°	1366	1377	1417	1455	1468	629
35°	1178	1196	1240	1286	1302	736
45°	954	967	1009	1051	1065	734
55°	703	714	743	774	783	629
65°	441	441	461	481	488	437
75°	202	197	206	211	215	217
85°	40	40	38	36	36	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.1	1588.1	1588.1	1588.1	1588.1
2.5°	1581.5	1581.5	1583.7	1590.3	1592.6
5°	1574.8	1574.8	1581.5	1585.9	1590.3
7.5°	1563.7	1565.9	1572.6	1581.5	1583.7
10°	1548.2	1550.4	1561.5	1572.6	1579.2
12.5°	1528.2	1532.7	1546.0	1563.7	1570.4
15°	1501.6	1508.3	1528.2	1548.2	1559.3
17.5°	1472.8	1481.6	1503.8	1532.7	1543.8
20°	1439.5	1450.6	1479.4	1510.5	1523.8
22.5°	1406.2	1415.1	1448.4	1483.9	1499.4
25°	1366.3	1377.4	1417.3	1455.0	1468.3
27.5°	1322.0	1337.5	1379.6	1419.5	1432.9
30°	1277.6	1290.9	1335.3	1379.6	1395.1
32.5°	1228.8	1242.1	1290.9	1335.3	1353.0
35°	1177.8	1195.5	1239.9	1286.5	1302.0
37.5°	1122.3	1142.3	1188.9	1228.8	1248.8
40°	1066.9	1084.6	1131.2	1173.3	1188.9
42.5°	1011.4	1027.0	1071.3	1115.7	1129.0
45°	953.8	967.1	1009.2	1051.4	1064.7
47.5°	891.7	907.2	947.1	982.6	998.1
50°	829.5	845.1	882.8	916.1	929.4
52.5°	769.7	778.5	814.0	845.1	860.6
55°	703.1	714.2	743.0	774.1	783.0
57.5°	638.8	645.4	674.3	700.9	714.2
60°	572.3	576.7	603.3	623.3	638.8
62.5°	510.1	510.1	530.1	552.3	561.2
65°	441.4	441.4	461.4	481.3	488.0
67.5°	374.8	379.3	392.6	408.1	412.6
70°	312.7	312.7	326.1	337.1	339.4
72.5°	257.3	255.1	261.7	270.6	275.0
75°	201.8	197.4	206.3	210.7	215.1
77.5°	153.0	150.8	155.3	159.7	159.7
80°	108.7	106.5	110.9	110.9	113.1
82.5°	71.0	73.2	73.2	71.0	68.8
85°	39.9	39.9	37.7	35.5	35.5
87.5°	13.3	13.3	13.3	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)