

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: P298299

Luminaire Tested: **D3X-WG-44L92765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298299
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-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3634.0 lumens
Efficiency: N/A
Efficacy: 100.9 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

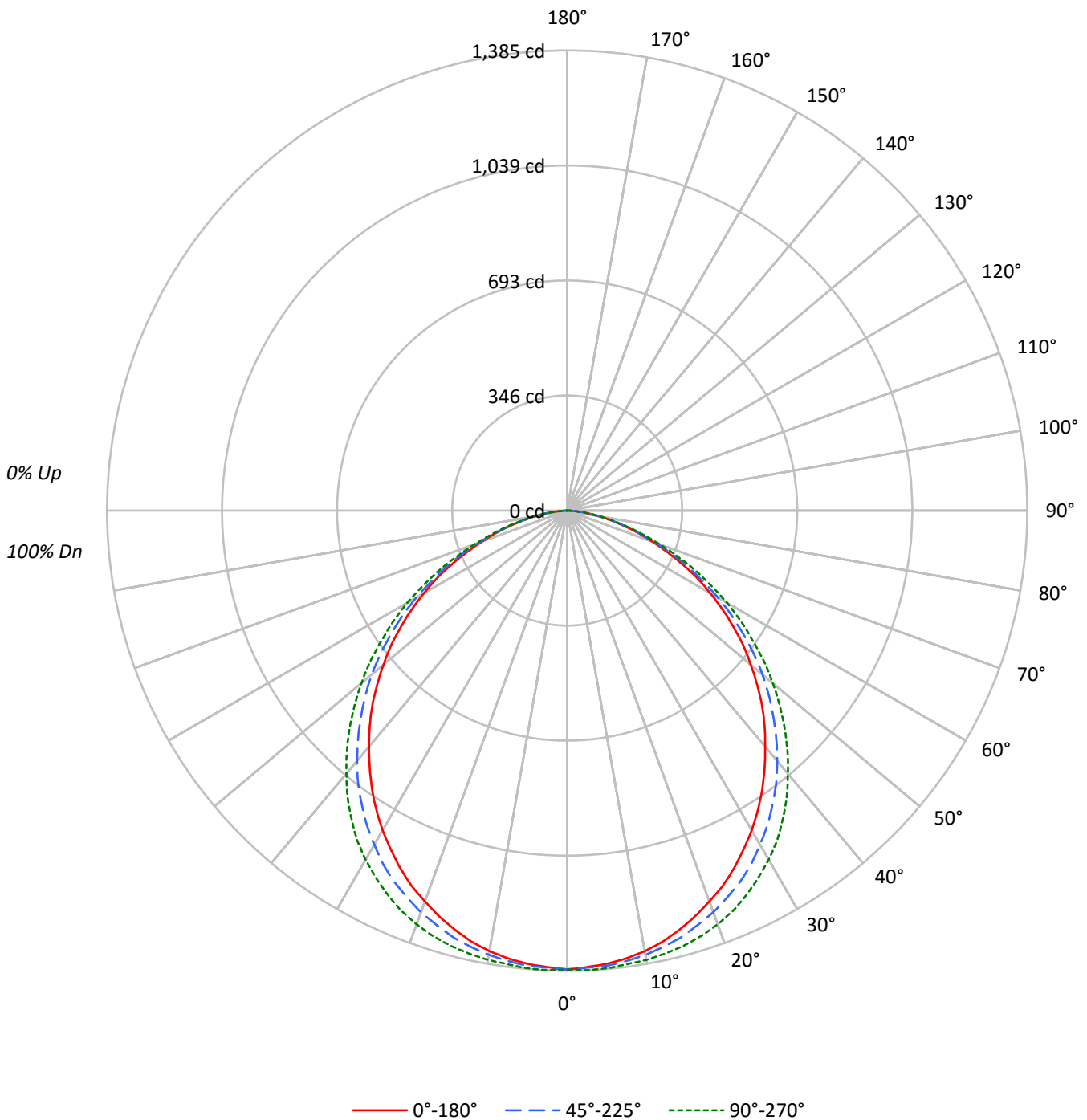
Input Watts (W): 36
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3716	3716	3716
5°	3699	3715	3736
10°	3679	3710	3753
15°	3638	3702	3777
20°	3585	3684	3795
25°	3528	3659	3791
30°	3452	3608	3770
35°	3365	3542	3719
40°	3259	3456	3632
45°	3156	3340	3523
50°	3020	3214	3383
55°	2868	3031	3194
60°	2678	2823	2990
65°	2444	2555	2702
70°	2140	2231	2322
75°	1825	1865	1945
80°	1464	1494	1525
85°	1071	1013	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.6
10°-20°	375.2	10.3
20°-30°	567.2	15.6
30°-40°	673.7	18.5
40°-50°	676.3	18.6
50°-60°	577.7	15.9
60°-70°	398.0	11.0
70°-80°	193.0	5.3
80°-90°	42.2	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°	1073.1	29.5
0°-40°	1746.7	48.1
0°-60°	3000.8	82.6
0°-90°	3634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1369	1369	1375	1379	1383	130
15°	1306	1312	1329	1346	1356	368
25°	1188	1198	1232	1265	1277	547
35°	1024	1040	1078	1119	1132	640
45°	829	841	878	914	926	638
55°	611	621	646	673	681	547
65°	384	384	401	418	424	380
75°	176	172	179	183	187	189
85°	35	35	33	31	31	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.0	1381.0	1381.0	1381.0	<i>1381.0</i>
2.5°	<i>1375.2</i>	<i>1375.2</i>	<i>1377.1</i>	<i>1382.9</i>	<i>1384.9</i>
5°	1369.4	1369.4	1375.2	1379.1	<i>1382.9</i>
7.5°	1359.8	1361.7	1367.5	1375.2	<i>1377.1</i>
10°	1346.3	1348.2	1357.9	1367.5	<i>1373.3</i>
12.5°	1328.9	1332.8	1344.4	1359.8	<i>1365.6</i>
15°	1305.8	1311.6	1328.9	1346.3	<i>1355.9</i>
17.5°	1280.7	1288.4	1307.7	1332.8	<i>1342.4</i>
20°	1251.8	1261.4	1286.5	1313.5	<i>1325.1</i>
22.5°	1222.8	1230.6	1259.5	1290.4	<i>1303.9</i>
25°	1188.1	1197.8	1232.5	1265.3	<i>1276.8</i>
27.5°	1149.6	1163.1	1199.7	1234.4	<i>1246.0</i>
30°	1111.0	1122.5	1161.1	1199.7	<i>1213.2</i>
32.5°	1068.5	1080.1	1122.5	1161.1	<i>1176.6</i>
35°	1024.2	1039.6	1078.2	1118.7	<i>1132.2</i>
37.5°	976.0	993.3	1033.8	1068.5	<i>1085.9</i>
40°	927.7	943.2	983.7	1020.3	<i>1033.8</i>
42.5°	879.5	893.0	931.6	970.2	<i>981.7</i>
45°	829.4	840.9	877.6	914.2	<i>925.8</i>
47.5°	775.4	788.9	823.6	854.4	<i>867.9</i>
50°	721.4	734.9	767.7	796.6	<i>808.2</i>
52.5°	669.3	677.0	707.9	734.9	<i>748.4</i>
55°	611.4	621.1	646.1	673.1	<i>680.9</i>
57.5°	555.5	561.3	586.3	609.5	<i>621.1</i>
60°	497.6	501.5	524.6	542.0	<i>555.5</i>
62.5°	443.6	443.6	461.0	480.3	<i>488.0</i>
65°	383.8	383.8	401.2	418.5	<i>424.3</i>
67.5°	326.0	329.8	341.4	354.9	<i>358.8</i>
70°	272.0	272.0	283.5	293.2	<i>295.1</i>
72.5°	223.7	221.8	227.6	235.3	<i>239.2</i>
75°	175.5	171.7	179.4	183.2	<i>187.1</i>
77.5°	133.1	131.2	135.0	138.9	<i>138.9</i>
80°	94.5	92.6	96.4	96.4	<i>98.4</i>
82.5°	61.7	63.6	63.6	61.7	<i>59.8</i>
85°	34.7	34.7	32.8	30.9	<i>30.9</i>
87.5°	11.6	11.6	11.6	13.5	<i>13.5</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)