

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: P298045

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-44L82765-LD5-UNV-22-T1-W2A-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3831.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

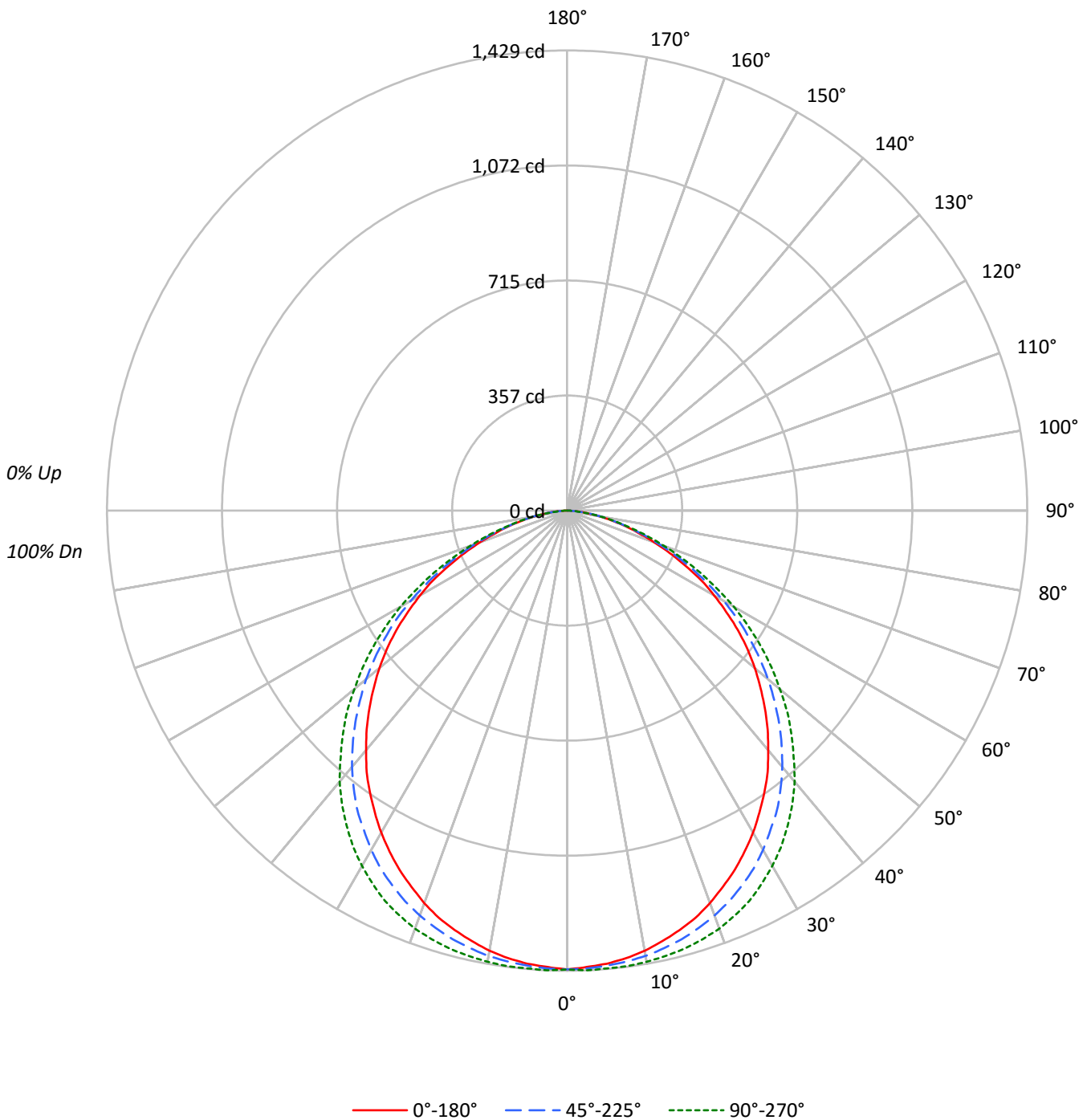
Input Watts (W): 35.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3834	3834	3834
5°	3816	3832	3855
10°	3792	3837	3888
15°	3757	3838	3924
20°	3714	3832	3956
25°	3655	3814	3974
30°	3588	3780	3960
35°	3509	3733	3922
40°	3412	3651	3861
45°	3304	3539	3751
50°	3185	3410	3609
55°	3038	3241	3444
60°	2841	3019	3218
65°	2574	2731	2902
70°	2271	2385	2515
75°	1952	1994	2079
80°	1565	1598	1630
85°	1145	1019	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.5
10°-20°	389.0	10.2
20°-30°	591.6	15.4
30°-40°	707.9	18.5
40°-50°	715.6	18.7
50°-60°	615.8	16.1
60°-70°	425.2	11.1
70°-80°	206.2	5.4
80°-90°	44.7	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°	1115.7	29.1
0°-40°	1823.5	47.6
0°-60°	3154.9	82.4
0°-90°	3831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1412	1415	1419	1425	1427	134
15°	1349	1357	1378	1398	1408	380
25°	1231	1246	1285	1324	1338	567
35°	1068	1087	1136	1178	1194	668
45°	868	885	930	969	986	670
55°	648	658	691	722	734	577
65°	404	410	429	448	456	402
75°	188	184	192	198	200	199
85°	37	37	33	33	33	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1424.9	1424.9	1424.9	1424.9	1424.9
2.5°	1418.7	1418.7	1422.8	1427.0	1429.0
5°	1412.5	1414.6	1418.7	1424.9	1427.0
7.5°	1402.2	1404.3	1412.5	1422.8	1427.0
10°	1387.8	1391.9	1404.3	1416.7	1422.8
12.5°	1369.2	1377.5	1391.9	1408.4	1416.7
15°	1348.6	1356.9	1377.5	1398.1	1408.4
17.5°	1325.9	1334.2	1358.9	1385.7	1396.0
20°	1297.1	1309.4	1338.3	1369.2	1381.6
22.5°	1264.1	1280.6	1313.6	1346.5	1361.0
25°	1231.1	1245.5	1284.7	1323.9	1338.3
27.5°	1194.0	1210.4	1253.8	1292.9	1307.4
30°	1154.8	1171.3	1216.6	1259.9	1274.4
32.5°	1111.5	1132.1	1175.4	1220.8	1237.3
35°	1068.2	1086.7	1136.2	1177.5	1194.0
37.5°	1022.8	1039.3	1088.8	1132.1	1148.6
40°	971.2	989.8	1039.3	1082.6	1099.1
42.5°	921.8	940.3	985.7	1026.9	1041.4
45°	868.1	884.6	930.0	969.2	985.7
47.5°	814.5	833.1	872.3	911.4	927.9
50°	760.9	775.3	814.5	851.6	862.0
52.5°	705.2	717.6	752.7	785.7	800.1
55°	647.5	657.8	690.8	721.7	734.1
57.5°	585.6	598.0	628.9	651.6	666.1
60°	527.9	534.1	560.9	583.6	598.0
62.5°	470.2	472.2	492.8	515.5	523.8
65°	404.2	410.4	428.9	447.5	455.7
67.5°	344.4	350.6	365.0	379.4	385.6
70°	288.7	288.7	303.1	313.4	319.6
72.5°	233.0	235.1	245.4	251.6	257.8
75°	187.7	183.5	191.8	198.0	200.0
77.5°	140.2	138.2	144.3	146.4	150.5
80°	101.0	101.0	103.1	105.2	105.2
82.5°	66.0	66.0	68.0	63.9	61.9
85°	37.1	37.1	33.0	33.0	33.0
87.5°	12.4	12.4	12.4	14.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)