

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: P297825

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-40L92765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

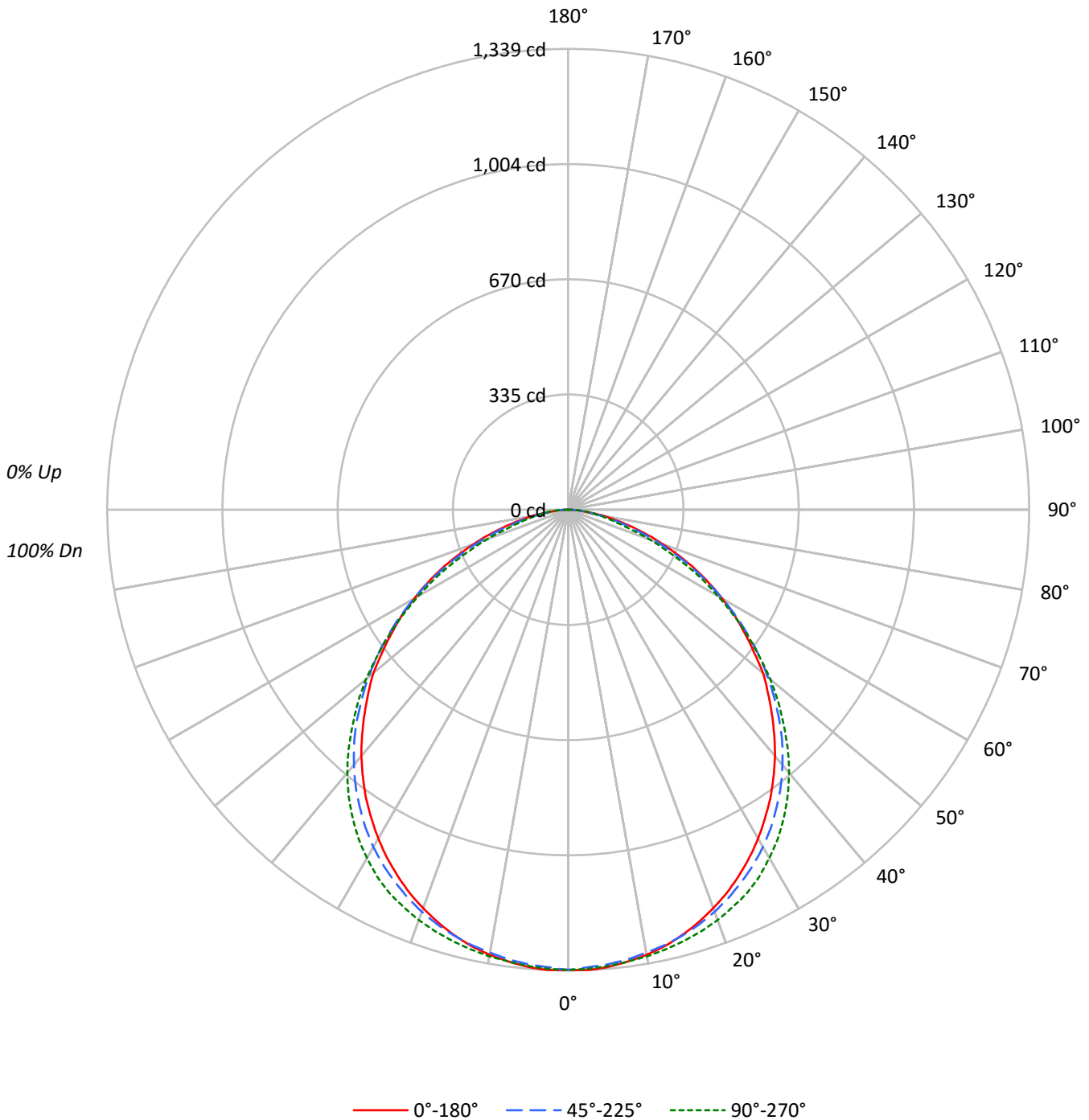
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	82	77		83	79	75		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	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	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°	3598	3598	3598
5°	3603	3581	3594
10°	3588	3571	3601
15°	3565	3570	3614
20°	3528	3560	3633
25°	3483	3540	3649
30°	3428	3517	3631
35°	3363	3468	3588
40°	3284	3401	3507
45°	3182	3303	3370
50°	3095	3175	3208
55°	2939	2998	2983
60°	2781	2781	2704
65°	2581	2520	2379
70°	2289	2189	1976
75°	1984	1802	1521
80°	1626	1404	1379
85°	1081	1275	1374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.6
10°-20°	362.9	10.2
20°-30°	551.5	15.5
30°-40°	660.3	18.6
40°-50°	666.0	18.7
50°-60°	567.3	16.0
60°-70°	387.9	10.9
70°-80°	185.8	5.2
80°-90°	47.0	1.3
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°	1040.7	29.3
0°-40°	1701.0	47.8
0°-60°	2934.3	82.5
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1334	1332	1326	1332	1331	127
15°	1280	1277	1281	1296	1297	361
25°	1173	1175	1192	1219	1229	540
35°	1024	1027	1056	1086	1092	640
45°	836	843	868	886	886	646
55°	626	630	639	641	636	561
65°	405	397	396	382	374	400
75°	191	188	173	151	146	204
85°	35	38	41	43	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.0	1337.0	1337.0	1337.0	1337.0
2.5°	1338.6	1337.0	1330.6	1337.0	1335.4
5°	1333.8	1332.2	1325.8	1332.2	1330.6
7.5°	1324.3	1322.7	1317.9	1324.3	1324.3
10°	1313.1	1309.9	1306.8	1316.3	1317.9
12.5°	1298.8	1295.6	1295.6	1306.8	1308.4
15°	1279.7	1276.6	1281.3	1295.6	1297.2
17.5°	1257.5	1255.9	1263.8	1281.3	1284.5
20°	1232.0	1230.5	1243.2	1263.8	1268.6
22.5°	1205.0	1205.0	1219.3	1243.2	1249.5
25°	1173.2	1174.8	1192.3	1219.3	1228.9
27.5°	1139.8	1143.0	1163.7	1193.9	1201.8
30°	1103.3	1108.0	1131.9	1160.5	1168.5
32.5°	1063.5	1068.3	1095.3	1125.5	1133.5
35°	1023.8	1027.0	1055.6	1085.8	1092.1
37.5°	979.3	984.0	1014.3	1041.3	1047.6
40°	934.8	939.5	968.2	993.6	998.4
42.5°	885.5	891.8	920.5	941.1	944.3
45°	836.2	842.6	868.0	885.5	885.5
47.5°	786.9	790.1	812.4	829.8	828.3
50°	739.2	737.6	758.3	766.3	766.3
52.5°	680.4	685.2	699.5	704.3	699.5
55°	626.4	629.5	639.1	640.7	635.9
57.5°	573.9	572.3	580.3	575.5	569.1
60°	516.7	516.7	516.7	511.9	502.4
62.5°	461.0	457.8	456.3	445.1	440.4
65°	405.4	397.4	395.8	381.5	373.6
67.5°	346.6	343.4	335.4	321.1	306.8
70°	290.9	287.7	278.2	260.7	251.2
72.5°	240.1	236.9	224.2	203.5	190.8
75°	190.8	187.6	173.3	151.0	146.3
77.5°	144.7	143.1	128.8	117.6	116.1
80°	104.9	103.3	90.6	90.6	89.0
82.5°	66.8	66.8	63.6	65.2	66.8
85°	35.0	38.2	41.3	42.9	44.5
87.5°	11.1	17.5	20.7	22.3	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)