

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: P297826

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297826
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-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3610.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

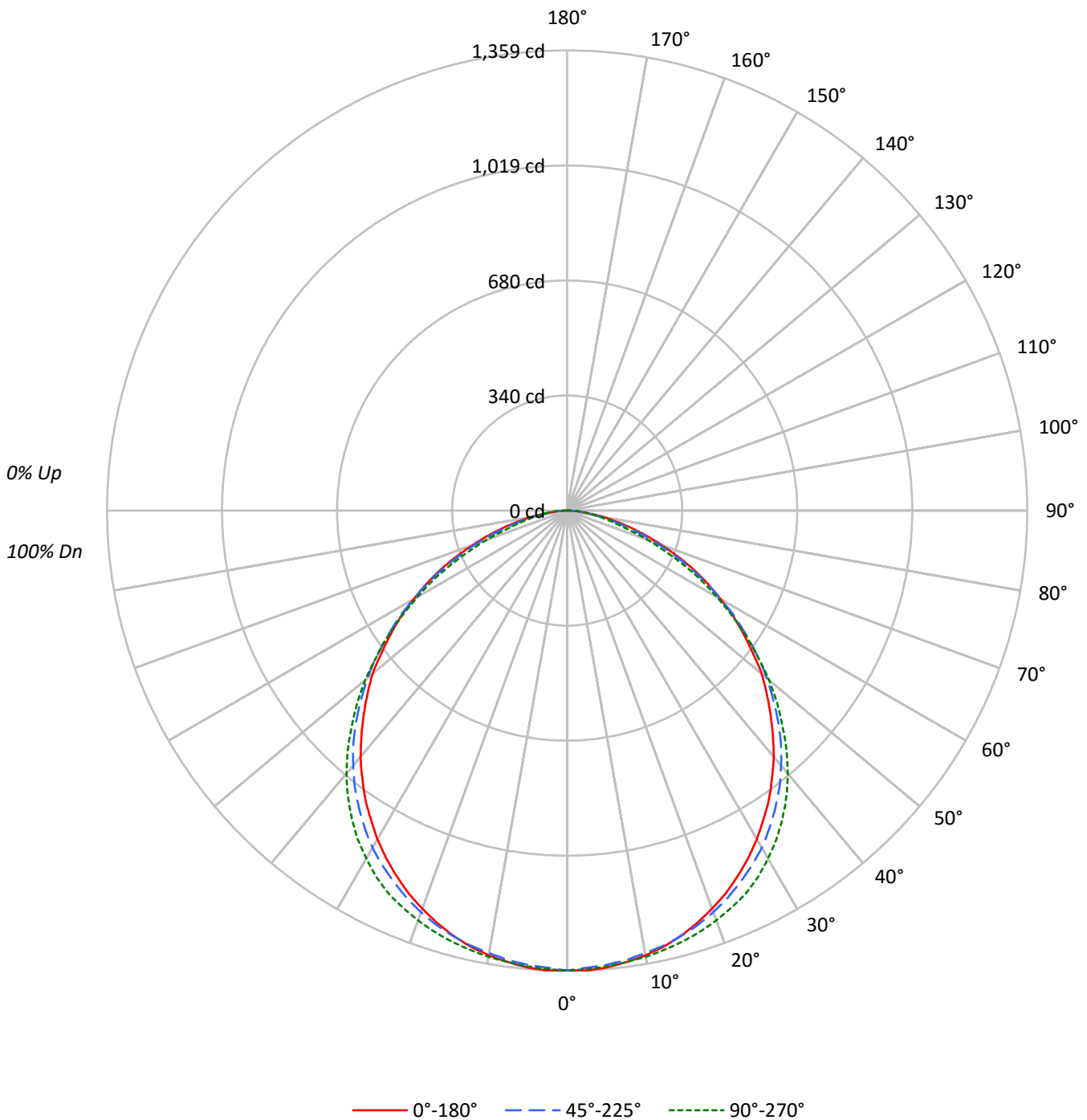
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3654	3654	3654
5°	3659	3637	3650
10°	3644	3626	3657
15°	3620	3625	3670
20°	3583	3615	3689
25°	3537	3595	3705
30°	3481	3572	3687
35°	3415	3521	3643
40°	3334	3453	3561
45°	3231	3354	3422
50°	3143	3224	3257
55°	2984	3045	3029
60°	2824	2824	2745
65°	2621	2560	2416
70°	2324	2223	2007
75°	2014	1830	1544
80°	1650	1426	1401
85°	1096	1297	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.6
10°-20°	368.5	10.2
20°-30°	560.0	15.5
30°-40°	670.5	18.6
40°-50°	676.3	18.7
50°-60°	576.1	16.0
60°-70°	393.9	10.9
70°-80°	188.6	5.2
80°-90°	47.8	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°	1056.8	29.3
0°-40°	1727.3	47.8
0°-60°	2979.7	82.5
0°-90°	3610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1354	1353	1346	1353	1351	129
15°	1300	1296	1301	1316	1317	366
25°	1191	1193	1211	1238	1248	549
35°	1040	1043	1072	1103	1109	649
45°	849	856	881	899	899	656
55°	636	639	649	651	646	569
65°	412	404	402	387	379	406
75°	194	190	176	153	148	207
85°	36	39	42	44	45	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1359.3	1357.7	1351.2	1357.7	1356.0
5°	1354.4	1352.8	1346.4	1352.8	1351.2
7.5°	1344.7	1343.1	1338.3	1344.7	1344.7
10°	1333.4	1330.2	1327.0	1336.7	1338.3
12.5°	1318.9	1315.7	1315.7	1327.0	1328.6
15°	1299.5	1296.3	1301.2	1315.7	1317.3
17.5°	1276.9	1275.3	1283.4	1301.2	1304.4
20°	1251.1	1249.5	1262.4	1283.4	1288.2
22.5°	1223.7	1223.7	1238.2	1262.4	1268.9
25°	1191.4	1193.0	1210.7	1238.2	1247.9
27.5°	1157.5	1160.7	1181.7	1212.4	1220.4
30°	1120.3	1125.2	1149.4	1178.5	1186.5
32.5°	1080.0	1084.8	1112.3	1142.9	1151.0
35°	1039.6	1042.9	1071.9	1102.6	1109.0
37.5°	994.4	999.3	1029.9	1057.4	1063.8
40°	949.2	954.1	983.1	1009.0	1013.8
42.5°	899.2	905.6	934.7	955.7	958.9
45°	849.1	855.6	881.4	899.2	899.2
47.5°	799.1	802.3	824.9	842.7	841.1
50°	750.7	749.1	770.0	778.1	778.1
52.5°	690.9	695.8	710.3	715.1	710.3
55°	636.0	639.3	649.0	650.6	645.7
57.5°	582.8	581.2	589.2	584.4	577.9
60°	524.7	524.7	524.7	519.8	510.1
62.5°	468.2	464.9	463.3	452.0	447.2
65°	411.7	403.6	402.0	387.4	379.4
67.5°	351.9	348.7	340.6	326.1	311.6
70°	295.4	292.2	282.5	264.8	255.1
72.5°	243.8	240.5	227.6	206.6	193.7
75°	193.7	190.5	176.0	153.4	148.5
77.5°	146.9	145.3	130.8	119.5	117.8
80°	106.5	104.9	92.0	92.0	90.4
82.5°	67.8	67.8	64.6	66.2	67.8
85°	35.5	38.7	42.0	43.6	45.2
87.5°	11.3	17.8	21.0	22.6	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)