

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: P297822

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297822
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-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3290.0 lumens
Efficiency: N/A
Efficacy: 83.3 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

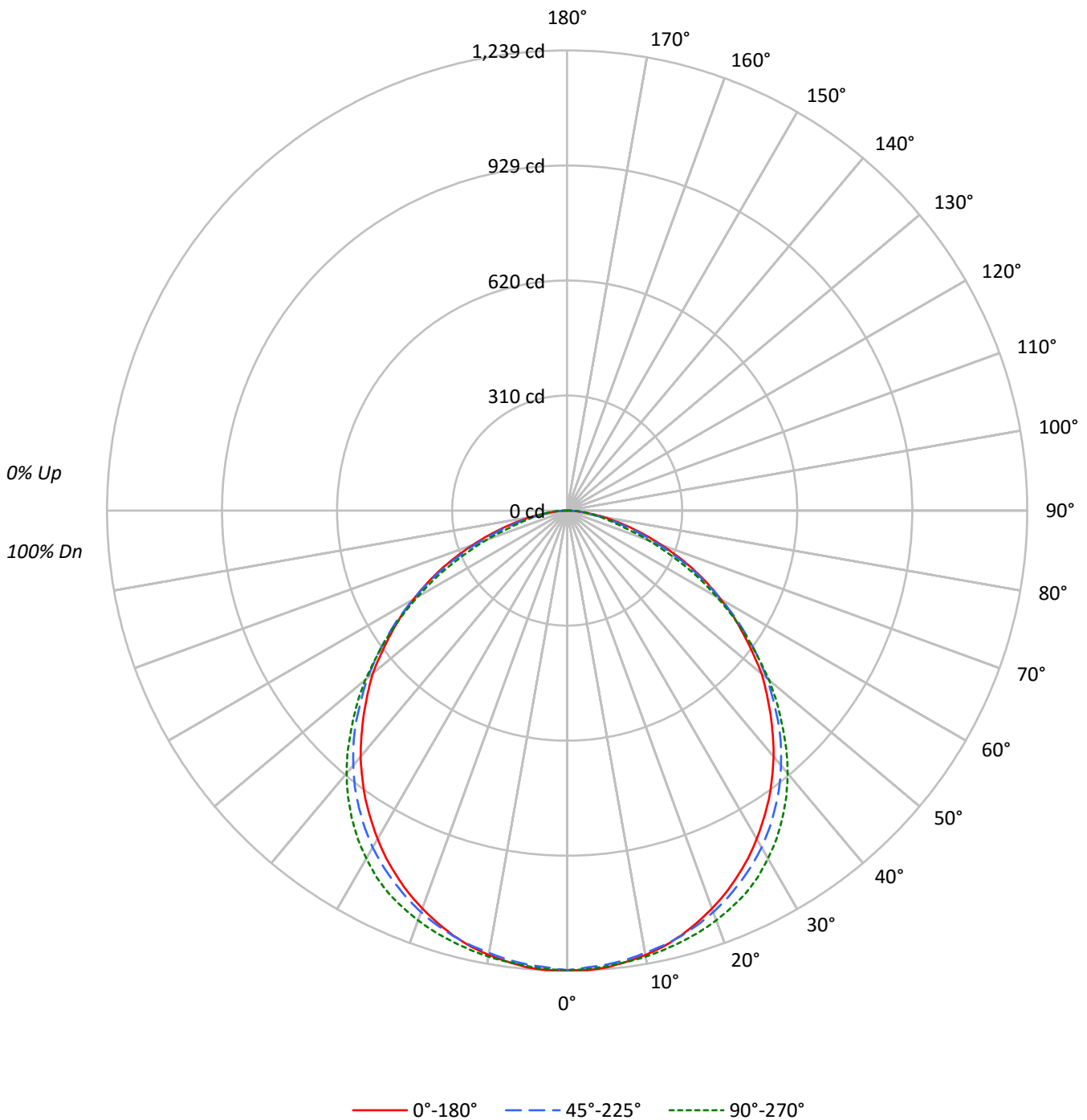
Input Watts (W): 39.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3330	3330	3330
5°	3334	3314	3326
10°	3321	3305	3333
15°	3299	3304	3344
20°	3265	3295	3362
25°	3224	3276	3377
30°	3173	3255	3360
35°	3113	3209	3320
40°	3039	3147	3245
45°	2945	3057	3119
50°	2864	2938	2969
55°	2720	2775	2761
60°	2574	2574	2502
65°	2389	2332	2201
70°	2118	2026	1829
75°	1835	1668	1408
80°	1505	1300	1277
85°	1000	1183	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.6
10°-20°	335.8	10.2
20°-30°	510.4	15.5
30°-40°	611.1	18.6
40°-50°	616.4	18.7
50°-60°	525.0	16.0
60°-70°	359.0	10.9
70°-80°	171.9	5.2
80°-90°	43.5	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°	963.2	29.3
0°-40°	1574.2	47.8
0°-60°	2715.6	82.5
0°-90°	3290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1234	1233	1227	1233	1231	117
15°	1184	1181	1186	1199	1200	334
25°	1086	1087	1103	1128	1137	500
35°	948	950	977	1005	1011	592
45°	774	780	803	820	820	598
55°	580	583	591	593	588	519
65°	375	368	366	353	346	370
75°	176	174	160	140	135	189
85°	32	35	38	40	41	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1238.8	1237.3	1231.4	1237.3	1235.8
5°	1234.4	1232.9	1227.0	1232.9	1231.4
7.5°	1225.5	1224.1	1219.7	1225.5	1225.5
10°	1215.2	1212.3	1209.4	1218.2	1219.7
12.5°	1202.0	1199.1	1199.1	1209.4	1210.8
15°	1184.3	1181.4	1185.8	1199.1	1200.5
17.5°	1163.7	1162.3	1169.6	1185.8	1188.8
20°	1140.2	1138.7	1150.5	1169.6	1174.0
22.5°	1115.2	1115.2	1128.4	1150.5	1156.4
25°	1085.8	1087.2	1103.4	1128.4	1137.3
27.5°	1054.9	1057.8	1076.9	1104.9	1112.3
30°	1021.0	1025.5	1047.5	1074.0	1081.4
32.5°	984.3	988.7	1013.7	1041.6	1049.0
35°	947.5	950.4	976.9	1004.9	1010.7
37.5°	906.3	910.7	938.6	963.7	969.5
40°	865.1	869.5	896.0	919.5	923.9
42.5°	819.5	825.4	851.8	871.0	873.9
45°	773.9	779.8	803.3	819.5	819.5
47.5°	728.3	731.2	751.8	768.0	766.5
50°	684.1	682.7	701.8	709.1	709.1
52.5°	629.7	634.1	647.3	651.8	647.3
55°	579.7	582.6	591.4	592.9	588.5
57.5°	531.1	529.6	537.0	532.6	526.7
60°	478.2	478.2	478.2	473.7	464.9
62.5°	426.7	423.7	422.2	411.9	407.5
65°	375.2	367.8	366.3	353.1	345.7
67.5°	320.7	317.8	310.4	297.2	283.9
70°	269.2	266.3	257.5	241.3	232.5
72.5°	222.2	219.2	207.4	188.3	176.5
75°	176.5	173.6	160.4	139.8	135.4
77.5°	133.9	132.4	119.2	108.9	107.4
80°	97.1	95.6	83.9	83.9	82.4
82.5°	61.8	61.8	58.8	60.3	61.8
85°	32.4	35.3	38.3	39.7	41.2
87.5°	10.3	16.2	19.1	20.6	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)