

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: P297821

Luminaire Tested: **D3X-WG-40L92765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297821
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-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3133.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

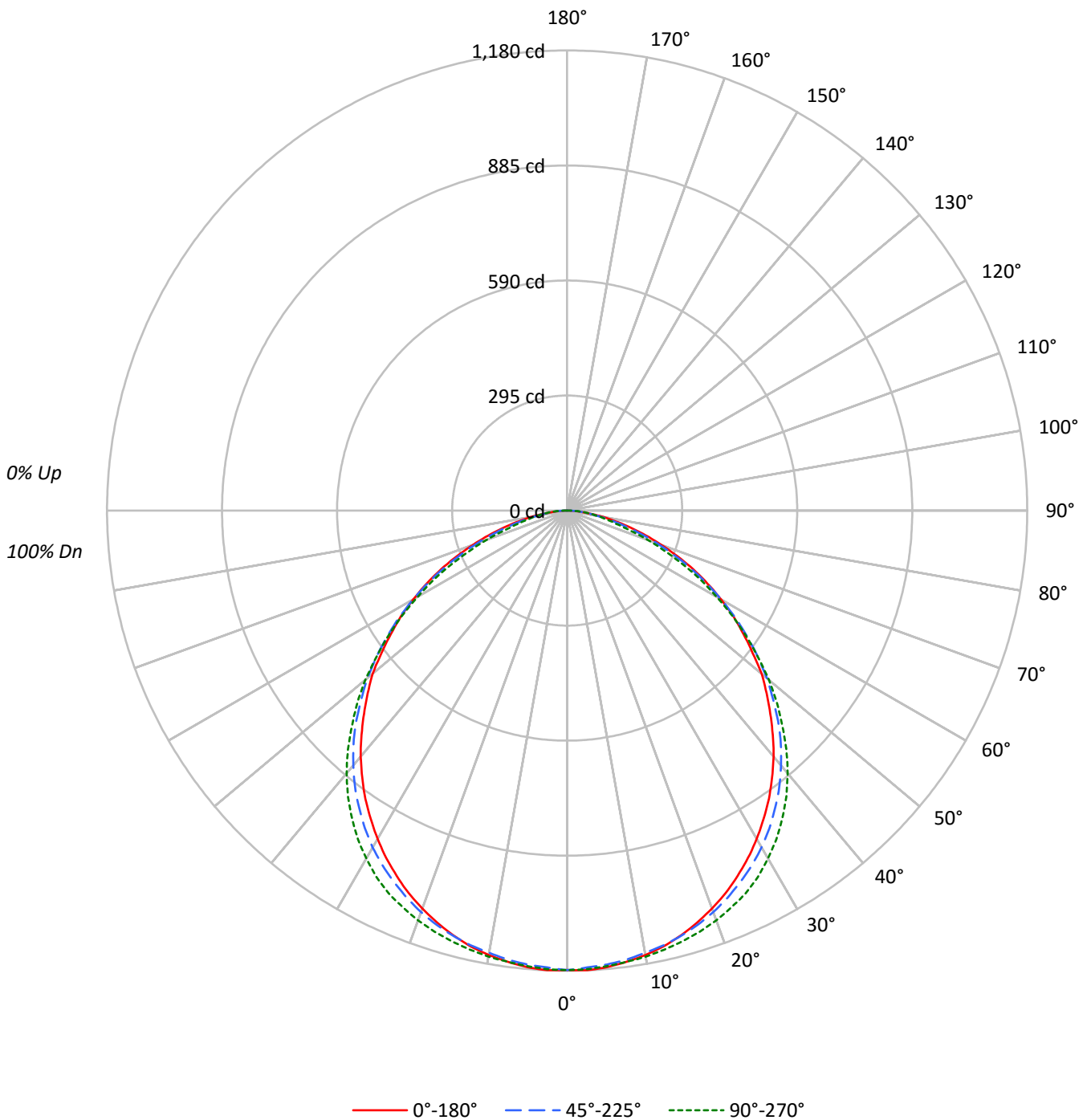
Input Watts (W): 39.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3171	3171	3171
5°	3175	3156	3168
10°	3162	3147	3174
15°	3142	3146	3185
20°	3109	3137	3202
25°	3070	3120	3216
30°	3021	3100	3200
35°	2964	3056	3162
40°	2894	2997	3091
45°	2804	2911	2970
50°	2727	2798	2827
55°	2590	2642	2629
60°	2450	2450	2383
65°	2275	2222	2096
70°	2017	1929	1742
75°	1748	1588	1340
80°	1433	1238	1216
85°	951	1124	1210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.6
10°-20°	319.8	10.2
20°-30°	486.0	15.5
30°-40°	581.9	18.6
40°-50°	587.0	18.7
50°-60°	500.0	16.0
60°-70°	341.9	10.9
70°-80°	163.7	5.2
80°-90°	41.4	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°	917.2	29.3
0°-40°	1499.1	47.8
0°-60°	2586.0	82.5
0°-90°	3133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1178	1178	1178	1178	1178	
5°	1176	1174	1168	1174	1173	112
15°	1128	1125	1129	1142	1143	318
25°	1034	1035	1051	1075	1083	476
35°	902	905	930	957	962	564
45°	737	742	765	780	780	569
55°	552	555	563	565	560	494
65°	357	350	349	336	329	352
75°	168	165	153	133	129	180
85°	31	34	36	38	39	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1178.3	1178.3	1178.3	1178.3	1178.3
2.5°	1179.7	1178.3	1172.7	1178.3	1176.9
5°	1175.5	1174.1	1168.5	1174.1	1172.7
7.5°	1167.1	1165.7	1161.5	1167.1	1167.1
10°	1157.2	1154.4	1151.6	1160.0	1161.5
12.5°	1144.6	1141.8	1141.8	1151.6	1153.0
15°	1127.8	1125.0	1129.2	1141.8	1143.2
17.5°	1108.2	1106.8	1113.8	1129.2	1132.0
20°	1085.8	1084.4	1095.6	1113.8	1118.0
22.5°	1062.0	1062.0	1074.6	1095.6	1101.2
25°	1034.0	1035.4	1050.8	1074.6	1083.0
27.5°	1004.5	1007.3	1025.6	1052.2	1059.2
30°	972.3	976.5	997.5	1022.7	1029.8
32.5°	937.3	941.5	965.3	991.9	998.9
35°	902.3	905.1	930.3	956.9	962.5
37.5°	863.0	867.2	893.9	917.7	923.3
40°	823.8	828.0	853.2	875.6	879.8
42.5°	780.4	786.0	811.2	829.4	832.2
45°	736.9	742.5	765.0	780.4	780.4
47.5°	693.5	696.3	715.9	731.3	729.9
50°	651.5	650.1	668.3	675.3	675.3
52.5°	599.6	603.8	616.5	620.7	616.5
55°	552.0	554.8	563.2	564.6	560.4
57.5°	505.8	504.4	511.4	507.2	501.6
60°	455.3	455.3	455.3	451.1	442.7
62.5°	406.3	403.5	402.1	392.3	388.1
65°	357.3	350.3	348.9	336.2	329.2
67.5°	305.4	302.6	295.6	283.0	270.4
70°	256.4	253.6	245.2	229.8	221.4
72.5°	211.6	208.8	197.5	179.3	168.1
75°	168.1	165.3	152.7	133.1	128.9
77.5°	127.5	126.1	113.5	103.7	102.3
80°	92.5	91.1	79.9	79.9	78.5
82.5°	58.8	58.8	56.0	57.4	58.8
85°	30.8	33.6	36.4	37.8	39.2
87.5°	9.8	15.4	18.2	19.6	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)