

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: P297776

Luminaire Tested: **D3X-WG-35L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297776
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-35L93050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3102.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

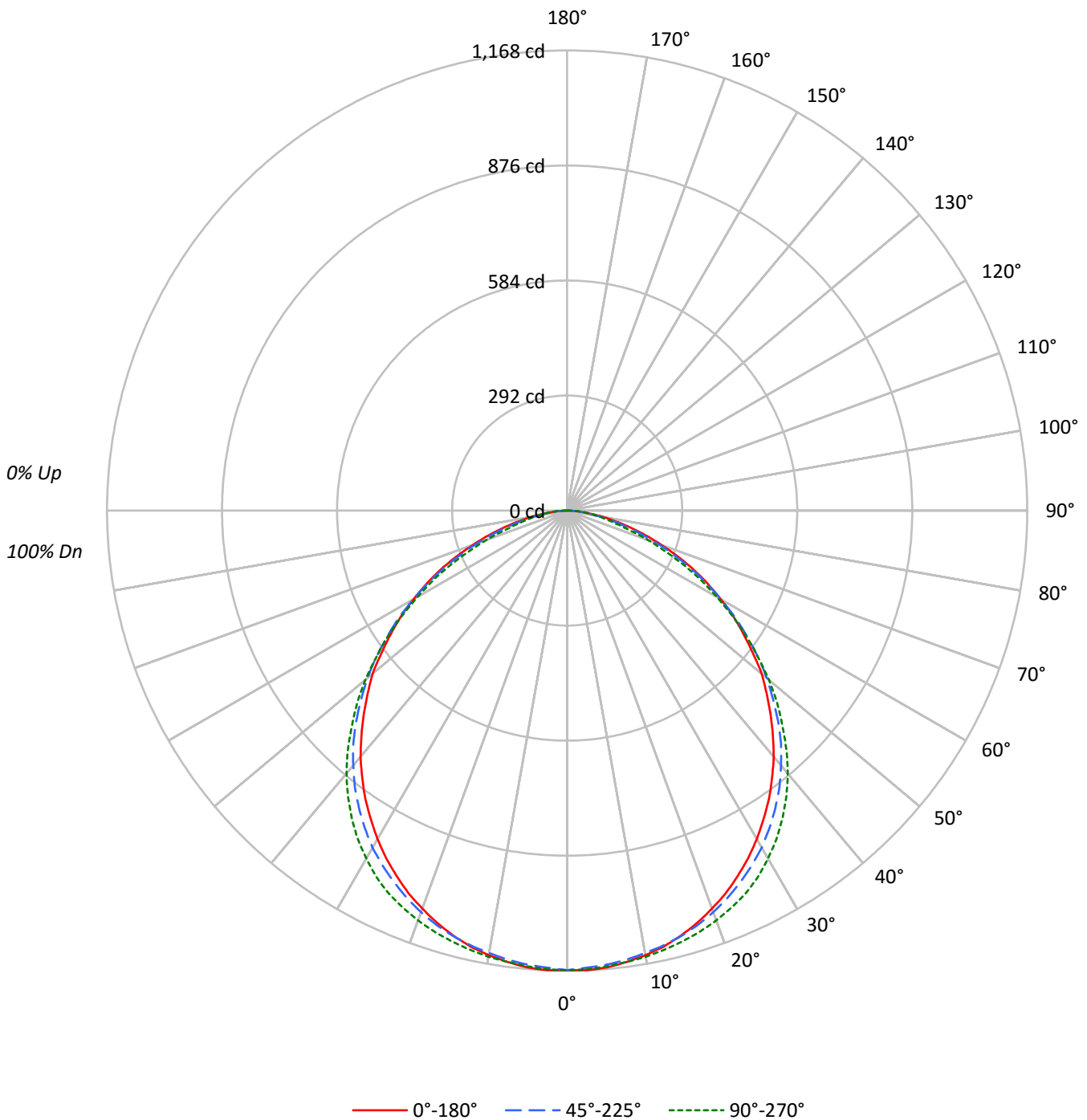
Input Watts (W): 34.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3139	3139	3139
5°	3144	3125	3136
10°	3131	3116	3142
15°	3111	3115	3153
20°	3079	3107	3170
25°	3040	3089	3184
30°	2991	3069	3168
35°	2935	3026	3131
40°	2865	2968	3060
45°	2777	2882	2941
50°	2700	2770	2799
55°	2564	2616	2603
60°	2426	2426	2359
65°	2252	2199	2076
70°	1998	1910	1725
75°	1731	1572	1327
80°	1420	1226	1204
85°	942	1115	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.6
10°-20°	316.6	10.2
20°-30°	481.2	15.5
30°-40°	576.1	18.6
40°-50°	581.1	18.7
50°-60°	495.0	16.0
60°-70°	338.5	10.9
70°-80°	162.1	5.2
80°-90°	41.1	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°	908.1	29.3
0°-40°	1484.3	47.8
0°-60°	2560.4	82.5
0°-90°	3102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1164	1162	1157	1162	1161	110
15°	1117	1114	1118	1130	1132	315
25°	1024	1025	1040	1064	1072	472
35°	893	896	921	947	953	558
45°	730	735	757	773	773	563
55°	546	549	558	559	555	489
65°	354	347	345	333	326	349
75°	166	164	151	132	128	178
85°	30	33	36	38	39	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.6	1166.6	1166.6	1166.6	1166.6
2.5°	1168.0	1166.6	1161.1	1166.6	1165.2
5°	1163.8	1162.4	1156.9	1162.4	1161.1
7.5°	1155.5	1154.1	1150.0	1155.5	1155.5
10°	1145.8	1143.0	1140.2	1148.6	1150.0
12.5°	1133.3	1130.5	1130.5	1140.2	1141.6
15°	1116.7	1113.9	1118.1	1130.5	1131.9
17.5°	1097.2	1095.9	1102.8	1118.1	1120.8
20°	1075.1	1073.7	1084.8	1102.8	1107.0
22.5°	1051.5	1051.5	1064.0	1084.8	1090.3
25°	1023.7	1025.1	1040.4	1064.0	1072.3
27.5°	994.6	997.4	1015.4	1041.8	1048.7
30°	962.7	966.9	987.7	1012.6	1019.6
32.5°	928.0	932.2	955.8	982.1	989.0
35°	893.3	896.1	921.1	947.4	953.0
37.5°	854.5	858.7	885.0	908.6	914.1
40°	815.7	819.8	844.8	867.0	871.1
42.5°	772.7	778.2	803.2	821.2	824.0
45°	729.6	735.2	757.4	772.7	772.7
47.5°	686.6	689.4	708.8	724.1	722.7
50°	645.0	643.6	661.7	668.6	668.6
52.5°	593.7	597.9	610.4	614.5	610.4
55°	546.5	549.3	557.6	559.0	554.9
57.5°	500.8	499.4	506.3	502.2	496.6
60°	450.8	450.8	450.8	446.7	438.3
62.5°	402.3	399.5	398.1	388.4	384.2
65°	353.7	346.8	345.4	332.9	326.0
67.5°	302.4	299.6	292.7	280.2	267.7
70°	253.9	251.1	242.8	227.5	219.2
72.5°	209.5	206.7	195.6	177.6	166.5
75°	166.5	163.7	151.2	131.8	127.6
77.5°	126.2	124.8	112.4	102.7	101.3
80°	91.6	90.2	79.1	79.1	77.7
82.5°	58.3	58.3	55.5	56.9	58.3
85°	30.5	33.3	36.1	37.5	38.8
87.5°	9.7	15.3	18.0	19.4	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)