

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: P297136

Luminaire Tested: **D3X-WG-36L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-36L93050-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3171.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

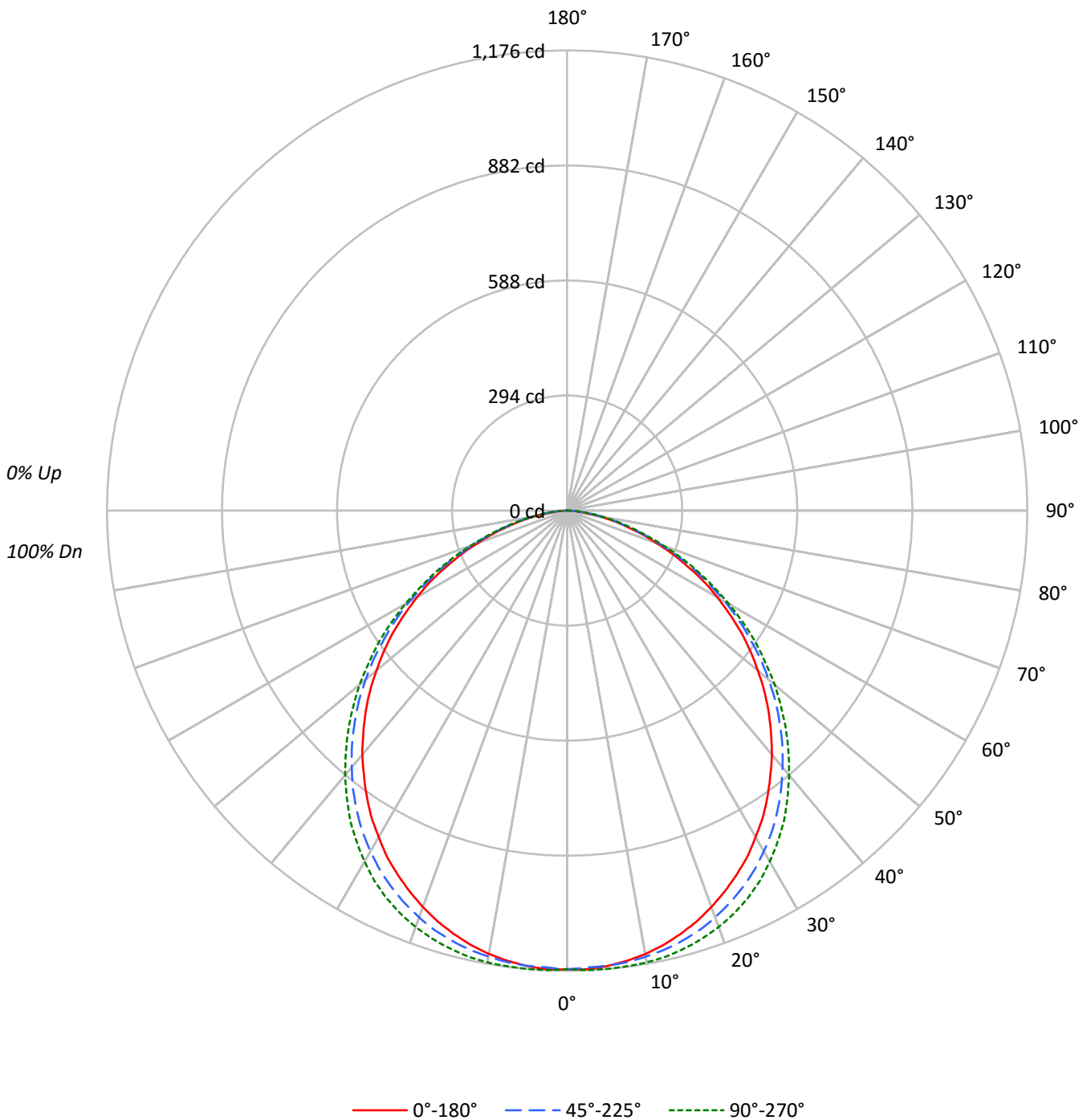
Input Watts (W): 25.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1577	1577	1577
5°	1579	1577	1588
10°	1572	1581	1602
15°	1560	1585	1614
20°	1544	1584	1622
25°	1523	1577	1622
30°	1496	1562	1609
35°	1466	1539	1588
40°	1430	1504	1550
45°	1385	1461	1504
50°	1331	1408	1450
55°	1274	1338	1380
60°	1192	1253	1284
65°	1089	1146	1175
70°	956	1006	1032
75°	809	850	880
80°	642	704	721
85°	438	526	508



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.5
10°-20°	321.6	10.1
20°-30°	488.7	15.4
30°-40°	583.1	18.4
40°-50°	588.9	18.6
50°-60°	507.4	16.0
60°-70°	353.7	11.2
70°-80°	175.3	5.5
80°-90°	40.9	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°	921.6	29.1
0°-40°	1504.8	47.5
0°-60°	2601.1	82.0
0°-90°	3171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1169	1168	1168	1173	1176	111
15°	1120	1126	1138	1153	1159	316
25°	1026	1039	1062	1084	1093	473
35°	893	908	937	959	967	558
45°	728	744	768	786	791	561
55°	543	554	570	584	588	484
65°	342	349	360	364	369	340
75°	156	158	164	167	169	168
85°	28	34	34	32	33	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1173.4	1171.1	1168.8	1173.4	1175.7
5°	1168.8	1167.7	1167.7	1173.4	1175.7
7.5°	1160.9	1160.9	1164.3	1172.3	1174.5
10°	1150.7	1152.9	1157.5	1168.8	1172.3
12.5°	1137.0	1141.6	1149.5	1163.2	1167.7
15°	1120.0	1125.7	1138.2	1152.9	1158.6
17.5°	1100.7	1108.6	1124.5	1141.6	1147.3
20°	1078.0	1088.2	1106.4	1125.7	1132.5
22.5°	1053.0	1065.5	1085.9	1106.4	1114.3
25°	1025.7	1039.4	1062.1	1083.7	1092.7
27.5°	997.3	1011.0	1035.9	1057.5	1066.6
30°	963.2	979.1	1005.3	1028.0	1035.9
32.5°	930.3	946.2	973.5	993.9	1001.9
35°	892.8	907.6	937.1	958.7	966.7
37.5°	853.1	870.1	898.5	917.8	924.6
40°	814.4	829.2	856.5	875.8	882.6
42.5°	771.3	787.2	814.4	831.5	837.2
45°	728.1	744.0	767.9	786.0	790.6
47.5°	683.8	698.6	722.4	737.2	741.7
50°	636.1	649.7	672.5	687.2	692.9
52.5°	590.7	603.2	622.5	635.0	638.4
55°	543.0	554.3	570.2	583.9	588.4
57.5°	491.8	504.3	519.1	530.5	533.9
60°	443.0	453.2	465.7	475.9	477.1
62.5°	395.3	399.8	411.2	420.3	421.4
65°	341.9	348.7	360.1	363.5	369.2
67.5°	293.1	297.6	306.7	311.2	315.8
70°	243.1	246.5	255.6	261.3	262.4
72.5°	199.9	201.1	207.9	212.4	213.5
75°	155.6	157.9	163.6	167.0	169.2
77.5°	118.1	120.4	124.9	127.2	127.2
80°	82.9	86.3	90.9	92.0	93.1
82.5°	53.4	57.9	61.3	62.5	60.2
85°	28.4	34.1	34.1	31.8	32.9
87.5°	10.2	12.5	13.6	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)