

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: P297567

Luminaire Tested: **D3X-WD-35L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-35L83050-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

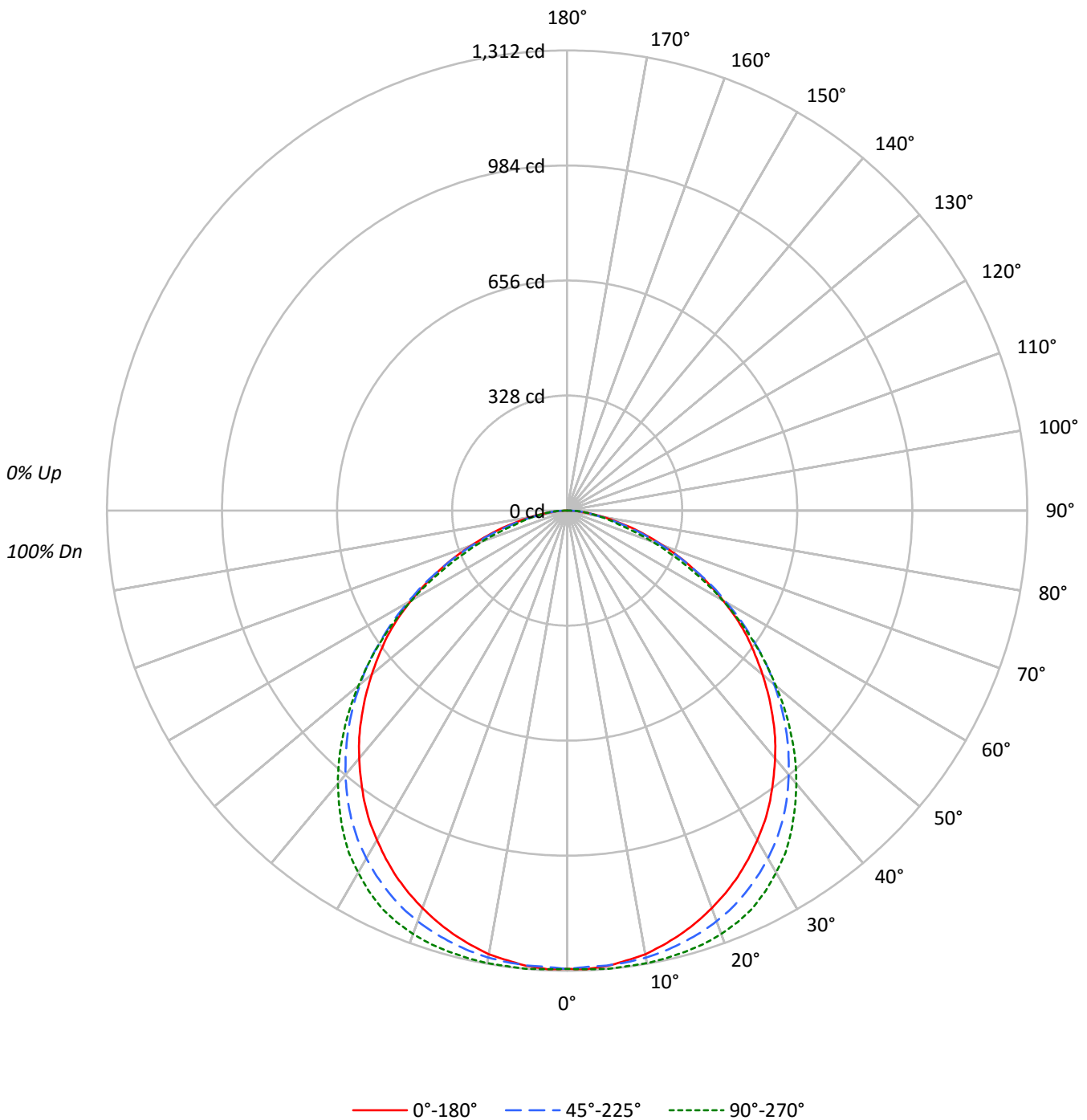
Input Watts (W): 35.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3517	3517	3517
5°	3522	3517	3543
10°	3510	3536	3580
15°	3485	3552	3628
20°	3454	3568	3678
25°	3419	3571	3714
30°	3369	3558	3703
35°	3315	3525	3662
40°	3241	3455	3573
45°	3151	3358	3438
50°	3044	3225	3252
55°	2938	3051	3036
60°	2767	2827	2758
65°	2550	2560	2417
70°	2281	2231	2029
75°	1982	1849	1566
80°	1588	1440	1440
85°	1136	1334	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.5
10°-20°	360.8	10.1
20°-30°	553.9	15.4
30°-40°	667.2	18.6
40°-50°	674.2	18.8
50°-60°	575.1	16.0
60°-70°	393.7	11.0
70°-80°	190.0	5.3
80°-90°	49.0	1.4
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°	1039.0	29.0
0°-40°	1706.2	47.6
0°-60°	2955.4	82.4
0°-90°	3588.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1304	1304	1302	1310	1312	124
15°	1251	1260	1275	1297	1302	353
25°	1152	1169	1203	1238	1251	530
35°	1009	1031	1073	1107	1115	630
45°	828	850	882	903	903	639
55°	626	637	650	654	647	558
65°	400	405	402	388	380	397
75°	191	191	178	157	151	202
85°	37	40	43	45	45	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1306.9	1306.9	1306.9	1306.9	1306.9
2.5°	1308.5	1306.9	1302.1	1308.5	1308.5
5°	1303.7	1303.7	1302.1	1310.1	1311.7
7.5°	1294.1	1297.3	1298.9	1308.5	1310.1
10°	1284.5	1287.7	1294.1	1306.9	1310.1
12.5°	1268.5	1274.9	1286.1	1303.7	1306.9
15°	1250.9	1260.5	1274.9	1297.3	1302.1
17.5°	1230.0	1242.9	1262.1	1287.7	1295.7
20°	1206.0	1220.4	1246.1	1274.9	1284.5
22.5°	1180.4	1196.4	1226.8	1260.5	1270.1
25°	1151.6	1169.2	1202.8	1238.0	1250.9
27.5°	1119.5	1138.7	1175.6	1212.4	1223.6
30°	1084.3	1105.1	1145.2	1182.0	1191.6
32.5°	1049.1	1069.9	1111.5	1146.8	1158.0
35°	1009.0	1031.4	1073.1	1106.7	1114.7
37.5°	965.8	988.2	1029.8	1063.5	1066.7
40°	922.5	945.0	983.4	1013.8	1017.0
42.5°	877.7	898.5	933.7	959.4	962.6
45°	828.0	850.5	882.5	903.3	903.3
47.5°	778.4	800.8	828.0	842.4	842.4
50°	727.1	748.0	770.4	778.4	776.8
52.5°	675.9	695.1	714.3	715.9	712.7
55°	626.2	637.4	650.3	653.5	647.1
57.5°	571.8	581.4	589.4	584.6	579.8
60°	514.1	523.7	525.3	517.3	512.5
62.5°	458.1	466.1	466.1	453.3	445.2
65°	400.4	405.2	402.0	387.6	379.6
67.5°	345.9	349.2	342.7	328.3	315.5
70°	289.9	291.5	283.5	265.9	257.9
72.5°	238.6	240.2	230.6	209.8	200.2
75°	190.6	190.6	177.8	157.0	150.6
77.5°	142.5	147.3	132.9	121.7	121.7
80°	102.5	107.3	92.9	94.5	92.9
82.5°	67.3	72.1	67.3	67.3	67.3
85°	36.8	40.0	43.2	44.8	44.8
87.5°	11.2	19.2	20.8	22.4	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)