

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: P297609

Luminaire Tested: **D3X-WD-35L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297609
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-35L82765-LD5-UNV-14-T1-W2A-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3538.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

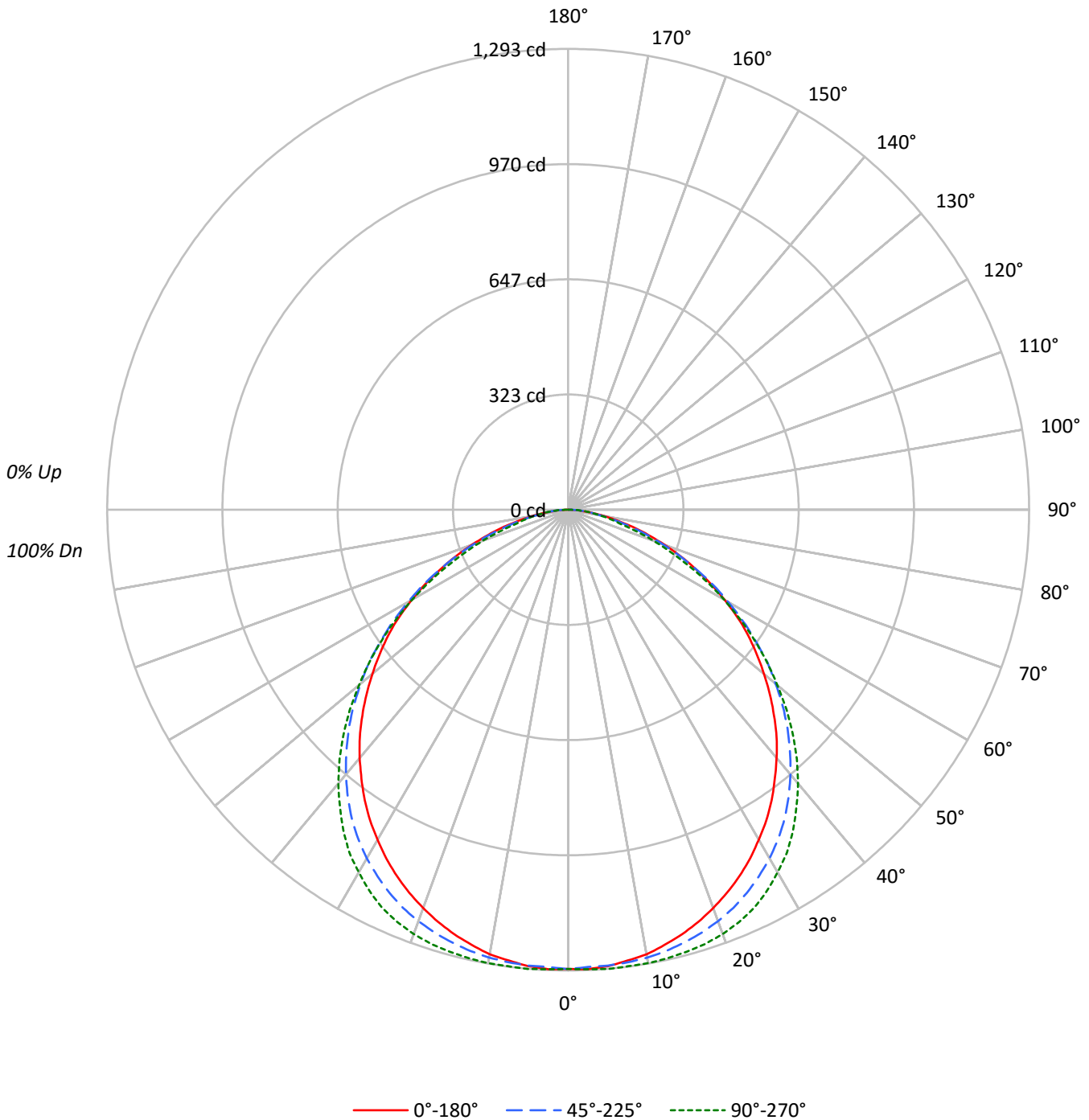
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	48	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	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3468	3468	3468
5°	3472	3468	3494
10°	3461	3487	3530
15°	3436	3502	3577
20°	3405	3519	3627
25°	3371	3521	3662
30°	3322	3509	3651
35°	3269	3476	3611
40°	3196	3406	3523
45°	3107	3312	3390
50°	3002	3180	3207
55°	2897	3008	2993
60°	2729	2788	2720
65°	2514	2524	2383
70°	2249	2199	2001
75°	1954	1823	1544
80°	1567	1420	1420
85°	1121	1315	1365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.5
10°-20°	355.7	10.1
20°-30°	546.2	15.4
30°-40°	657.9	18.6
40°-50°	664.8	18.8
50°-60°	567.0	16.0
60°-70°	388.2	11.0
70°-80°	187.3	5.3
80°-90°	48.3	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°	1024.5	29.0
0°-40°	1682.4	47.6
0°-60°	2914.2	82.4
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1286	1286	1284	1292	1293	122
15°	1233	1243	1257	1279	1284	348
25°	1136	1153	1186	1221	1233	523
35°	995	1017	1058	1091	1099	622
45°	816	839	870	891	891	630
55°	618	629	641	644	638	550
65°	395	400	396	382	374	392
75°	188	188	175	155	148	200
85°	36	40	43	44	44	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1288.7	1288.7	1288.7	1288.7	1288.7
2.5°	1290.3	1288.7	1284.0	1290.3	1290.3
5°	1285.5	1285.5	1284.0	1291.9	1293.4
7.5°	1276.1	1279.2	1280.8	1290.3	1291.9
10°	1266.6	1269.8	1276.1	1288.7	1291.9
12.5°	1250.8	1257.1	1268.2	1285.5	1288.7
15°	1233.4	1242.9	1257.1	1279.2	1284.0
17.5°	1212.9	1225.5	1244.5	1269.8	1277.6
20°	1189.2	1203.4	1228.7	1257.1	1266.6
22.5°	1163.9	1179.7	1209.7	1242.9	1252.4
25°	1135.5	1152.9	1186.0	1220.8	1233.4
27.5°	1103.9	1122.9	1159.2	1195.5	1206.6
30°	1069.2	1089.7	1129.2	1165.5	1175.0
32.5°	1034.4	1055.0	1096.0	1130.8	1141.8
35°	995.0	1017.1	1058.1	1091.3	1099.2
37.5°	952.3	974.4	1015.5	1048.7	1051.8
40°	909.7	931.8	969.7	999.7	1002.9
42.5°	865.5	886.0	920.7	946.0	949.2
45°	816.5	838.6	870.2	890.7	890.7
47.5°	767.5	789.6	816.5	830.7	830.7
50°	717.0	737.5	759.6	767.5	766.0
52.5°	666.5	685.4	704.4	705.9	702.8
55°	617.5	628.6	641.2	644.4	638.0
57.5°	563.8	573.3	581.2	576.4	571.7
60°	507.0	516.4	518.0	510.1	505.4
62.5°	451.7	459.6	459.6	446.9	439.0
65°	394.8	399.6	396.4	382.2	374.3
67.5°	341.1	344.3	338.0	323.8	311.1
70°	285.9	287.4	279.5	262.2	254.3
72.5°	235.3	236.9	227.4	206.9	197.4
75°	187.9	187.9	175.3	154.8	148.5
77.5°	140.6	145.3	131.1	120.0	120.0
80°	101.1	105.8	91.6	93.2	91.6
82.5°	66.3	71.1	66.3	66.3	66.3
85°	36.3	39.5	42.6	44.2	44.2
87.5°	11.1	19.0	20.5	22.1	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)